JUNIOR CO-OPERATIVE VARIETY TESTS 1954

Published by
SASKATCHEWAN WHEAT POOL
FEBRUARY 1955

COVER DESIGN

Probably the most outstanding feature of crop production in 1954 was the rust epidemic which affected a large part of the province. The cover design illustrates the effect of rust on Selkirk (upper part of the page) and on Thatcher (lower part of the page). The samples were taken from the test conducted by Leo V. Josephson of Radville.

JUNIOR CO-OPERATIVE

Variety Tests

WHEAT, OATS and BARLEY

1954

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Foreword

By the President of the Saskatchewan Wheat Pool

The year 1955, *Saskatchewan's Jubilee, marks fifty years of progress and development in this province. In the agricultural sphere those fifty years have produced vast changes. During the span of a man's memory the province has changed from pioneering status to a state of advanced development. The traditional farming practices which the early pioneers brought from eastern Canada and from other countries, gave way to those designed to meet the special conditions existing on the prairies. New grain varieties were produced which could mature in the short frost free season and which could resist the attacks of various diseases and insect pests. Mechanization replaced horse power on farms and helped to reduce the amount of labor required in farming. In later years chemicals began to play an important part in the control of weeds and certain plant diseases. During this time also, there was great development and change in the marketing of farm products. Each of these phases could provide a story in itself.*

The program of variety testing carried on by the Saskatchewan Wheat Pool illustrates one part played by this organization in the agricultural development of the province. The information obtained from this program has proved of interest both to farmers and to agricultural scientists.

A project of this kind could not be carried on without the assistance given by the young farm men and women who supervised individual tests on farms throughout the province. On behalf of the Saskatchewan Wheat Pool, I would like to express sincere appreciation to each of these variety test supervisors for their interest and their enthusiasm.

J. H. Wesson.

Introduction

Fifty years of grain production in Saskatchewan have been marked by a number of important milestones. In 1905 the area seeded to cereal grains in the province was 1,638,000 acres, which produced 46,622,000 bushels of grain. In the year 1952, 23,560,000 acres produced a record 697,500,000 bushels. This great increase in grain production is due in no small measure to improvements in cultural practices and the development of better grain varieties. The original settlers of Saskatchewan seeded Red Fife wheat, which was developed by David Fife from a single kernel. It was later replaced by the higher yielding variety Marquis. Red Bobs was introduced because of its early maturity, but Marquis remained the dominant variety until the rust epidemic of the mid-1930's, when it was replaced by Thatcher. Thatcher was in turn attacked by race 15B of stem rust and then Selkirk was developed to meet this new threat. A large number of other varieties appeared during the intervening years, but none of them reached the prominence of those mentioned. Each of these varieties marked a milestone in the development of the grain growing industry of this province. Each variety required patient and careful work in selection and breeding before it could be released for distribution. Following this a period of testing was required to determine the areas to which it was best adapted. In each year since 1935, the Saskatchewan Wheat Pool has played a part in the work of testing new varieties. It has sponsored a program of field tests throughout the province, conducted by young farm men and women who are interested in grain improvement. In each of these tests a number of varieties are grown side by side under field conditions and observed throughout the growing season. In the fall they are harvested and shipped to Regina, where the yields are calculated according to accepted statistical methods. These results give a good indication of the performance of the varieties under a wide range of conditions.

The following table shows the type of tests conducted in 1954 and the varieties included in them:

Project	No. of Individual Tests	Varieties Tested
Wheat	187	Thatcher, Selkirk, Lake, Rescue, Chinook, Lee, W-120, (1)
Oats	80	Exeter, Eagle, Rodney, Garry.
Barley	80	Husky, Vantmore, Vantage, Compana, Wolfe, Balder. (2)

(1) Only five of the seven varieties listed were used in each test. Thatcher, Selkirk and Lake were included in all tests throughout the province. Rescue and Chinook, both sawfly-resistant varieties, were used in the south, central and western Cereal Variety Zones. They were replaced by Lee and W-120 in the eastern and northern zones.

(2) Husky and Vantmore were used in all tests. Vantage and Compana were included in the south, western and central zones. They were replaced by Wolfe and Balder in the eastern and northern zones.

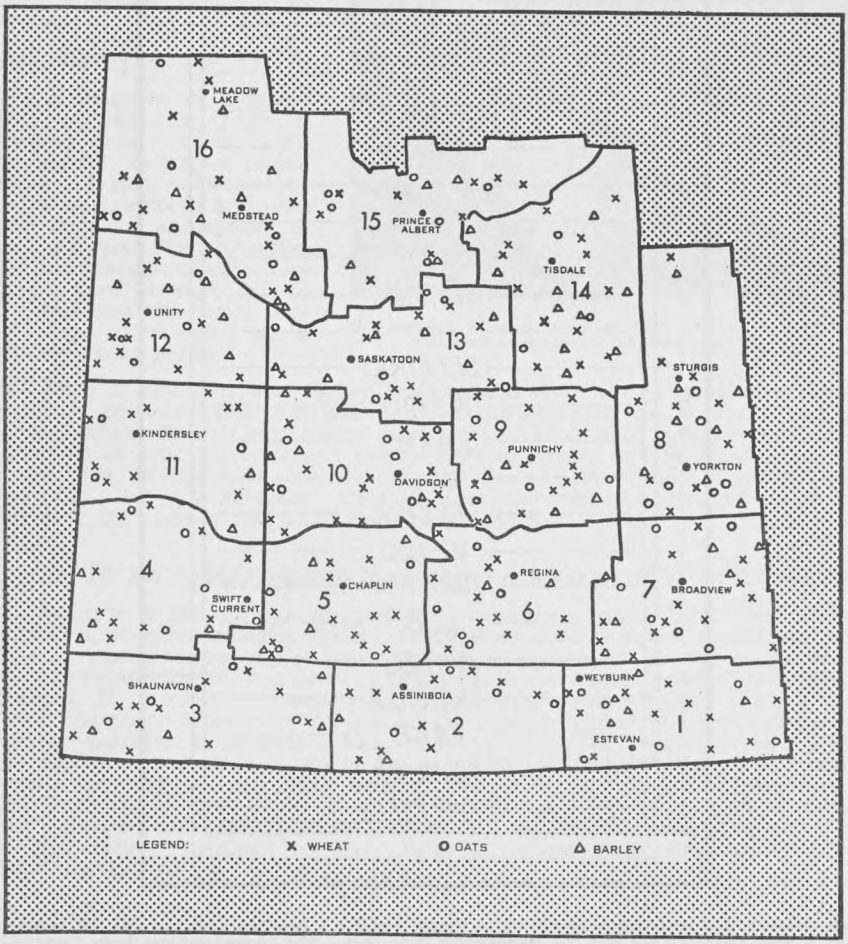
The section of the booklet dealing with wheat tests begins on page 10; the section dealing with oats begins on page 43; and that dealing with barley begins on page 59.

ORGANIZATION OF THE TESTING PROGRAM

The wide variations in soil and climatic conditions in different parts of Saskatchewan have a marked effect on the performance of grain varieties. In setting up the Wheat Pool testing project an attempt was made to locate at least two tests in each of the 166 Wheat Pool sub-districts, so that yield information would be available for as many as possible of the different climatic types. With few exceptions the desired distribution was achieved. The map shown below indicates the location of each test.

Since the accuracy of the project depends to a great extent on the care taken by each test supervisor, the choice of dependable, interested young farm people to conduct the tests is an important factor. Supervisors were selected by the Wheat Pool delegate in each sub-district, and in most cases were between the ages of sixteen and twenty-one.

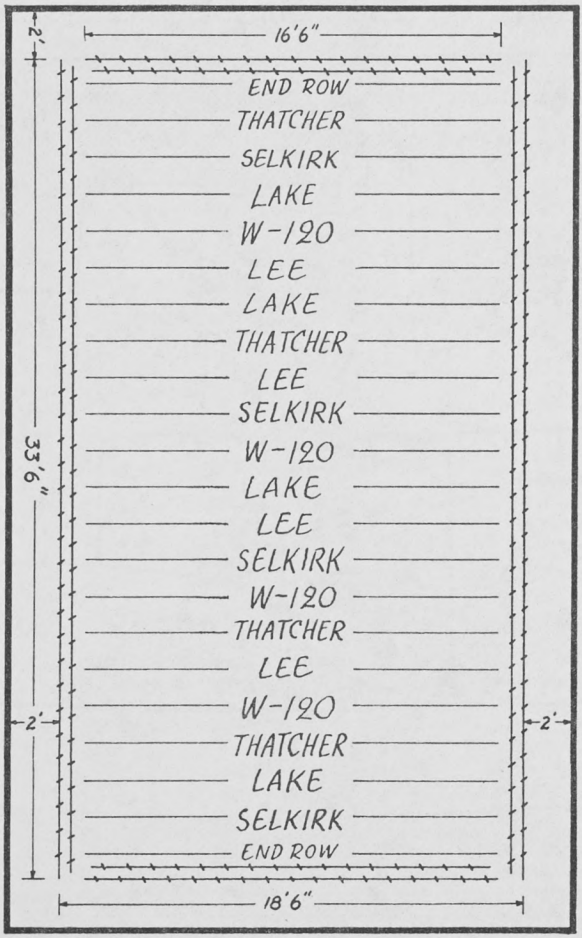
MAP SHOWING LOCATION OF TESTS ACCORDING TO WHEAT POOL DISTRICTS



The equipment for each test was supplied from Head Office of the Wheat Pool in Regina. The seed for each test was carefully measured and sent to the supervisor with complete instructions for seeding the test. A rain gauge was supplied to record the amount of rainfall during the growing season.

Each supervisor was requested to complete and forward regular progress reports comparing the performance of the varieties at different stages of growth. The information contained in these reports was summarized and used in the preparation of this booklet. When the grain was ripe each test row was harvested separately, dried, wrapped in paper and shipped to the Wheat Pool Head Office in Regina. There the sheaves were threshed separately and the yields recorded. A sample of each variety was cleaned,

PLAN OF WHEAT TEST



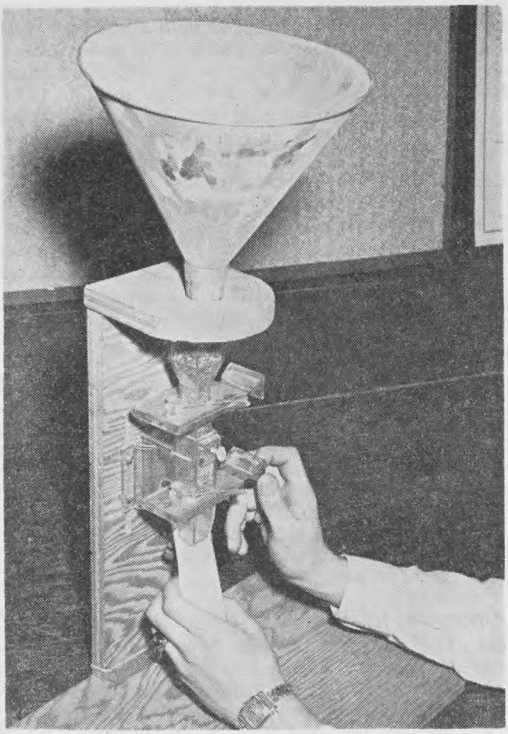
The crossed lines represent border rows of winter wheat. A two-foot pathway was left between the winter wheat border and the surrounding field crop. The barley and oat tests were laid out in a similar manner, except that 48 rows were sown. Five randomizations, or varietal arrangements, were used in seeding the tests. One of the five randomizations is shown in the above plan.

weighed in pounds per measured bushel and graded. Finally this information was combined with that supplied by the supervisors and delegates during the growing season, to give a summary of each individual test.

As has been the case during past years, the project was planned and supervised by Dr. J. B. Harrington, Professor of Field Husbandry, University of Saskatchewan. The threshing, summarizing and statistical analysis were carried out at Head Office of the Saskatchewan Wheat Pool under the direction of A. D. McLeod.

DESCRIPTION OF TESTS

A diagram of a wheat test appears on page 6. Twenty rows were sown, allowing for four rows (replicates) of each variety. The rows were sixteen and one-half feet long and spaced 18 inches apart. For protection purposes an extra buffer row was placed at each end of the test and the entire project was surrounded by a winter wheat border.



The amount of seed used in each row of a test is measured accurately by this machine.

Each of the oats and barley tests, which were somewhat larger, consisted of 48 rows. The rows were sixteen and one-half feet in length and a winter wheat border surrounded each test. These oats and barley tests consisted of four varieties and four replicates. Each replicate consisted of three rows, of which the centre one was the test row and the other two were for protection purposes. Thus the test consisted of a total of 48 rows, but only the sixteen test rows were harvested in the fall.

FACTS TO BE REMEMBERED IN READING AND STUDYING RESULTS

Because of the differences in climatic conditions from year to year, it is advisable, when choosing a variety, to consider several years' results rather than to depend too heavily on the data from only one year. In this connection the pamphlet entitled "Varieties of Grain Crops for Saskatchewan" is recommended. It is compiled annually by the Saskatchewan Advisory Council on Grain Crops, from information gained from tests conducted by the Experimental Stations in Saskatchewan, the University of Saskatchewan, and the Saskatchewan Wheat Pool. Its recommendations are based on yield results covering several years' testing. Copies of this pamphlet have been distributed to all Pool elevator agents. Additional copies are available from the University of Saskatchewan, Saskatoon; the Saskatchewan Department of Agriculture, Regina; the Saskatchewan Wheat Pool, Regina; or any Experimental Station in the Province.

Necessary Difference

The statistical term, "Necessary Difference," is used frequently in this report. The "Necessary Difference" is calculated by applying an approved statistical formula to the yield results of each individual test. The result

of the calculation is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

Neck Strength

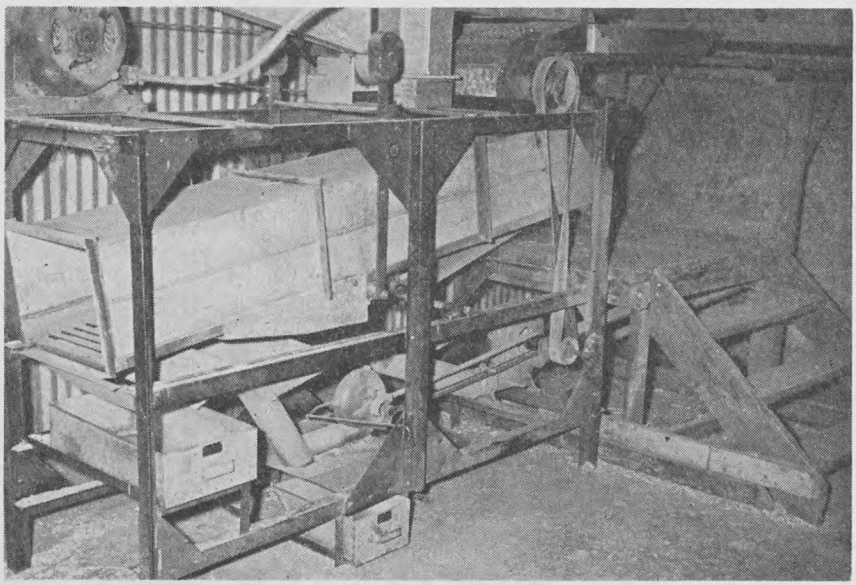
This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2 or 3, where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength, and 3 indicated weakness in the neck.

Results of Individual Tests

The results of individual tests appear in the following tables: Wheat, No. 25; Oats, No. 43; Barley, No. 63. These results are arranged according to Wheat Pool districts (illustrated on page 5), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to several causes such as differences in soil type, climatic conditions, and date of seeding.

Summary by Cereal Variety Zones

The individual tests were grouped for analysis on the basis of cereal variety zones. These zones are illustrated on pages 40 and 41. Each zone represents an area in which conditions influencing plant growth are generally similar. While local conditions may vary considerably within the zone, in general the average yield results can be considered to represent the performance of the varieties for that zone.



The sheaves from each variety test are threshed separately in this rod-row thresher at the Wheat Pool Head Office in Regina.

Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks" contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects:

Bl.—Bleached
D.—Discolored
E.—Ergot
F.—Frosted
G.—Green
I.—Immature
Spr.—Sprouted
W.—Weathered

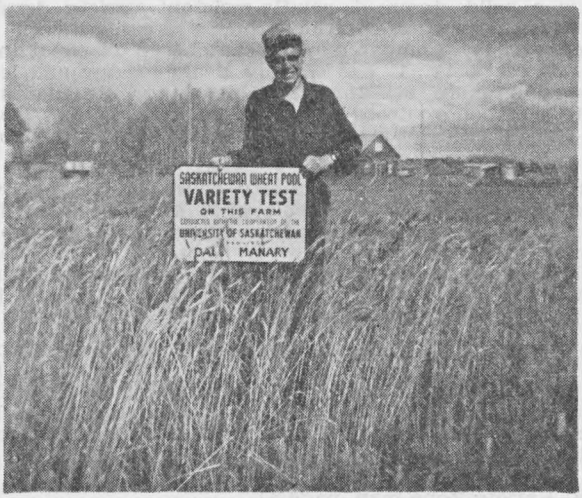
RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than the amount of annual precipitation. The rainfall shown in the following table covers only the months representing the growing period of wheat in Saskatchewan.

TABLE No. 1.—AVERAGE MONTHLY PRECIPITATION IN INCHES DURING THE PERIOD MAY-AUGUST SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	May	June	July	August	Total
1A	2.41	3.25	2.21	4.30	12.17
1B	2.25	3.34	1.72	3.64	10.95
1C	1.73	2.72	1.51	4.44	10.40
1D	1.68	3.04	2.06	3.64	10.42
2A	2.08	4.66	2.29	2.34	11.37
2B	2.23	3.47	3.48	5.48	14.66
2C	2.23	3.20	2.25	3.63	11.31
2D	1.58	2.62	2.09	6.27	12.56
2E	2.74	3.48	2.66	4.03	12.91
3A	1.85	7.01	2.55	2.46	13.87
3B	1.73	5.05	2.42	2.48	11.68
3C	1.82	4.60	3.23	4.20	13.85
3D	1.68	3.79	3.60	4.59	13.66
3E	1.79	2.25	3.03	6.12	13.19
3F	1.70	4.58	4.04	4.24	14.56
3G	1.71	3.42	3.08	5.38	13.59
3H	1.97	3.00	3.90	5.04	13.91
3J	1.64	3.51	3.62	5.93	14.70
4A	1.70	4.74	4.74	5.20	16.38
4B	1.65	2.20	4.41	5.79	14.05

Note—The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.



Dale Manary of Smeaton standing beside his wheat test.

WHEAT TESTS

The wheat project consisted of 187 field tests and these were distributed throughout the grain growing area of the province. Of the seven varieties tested, Thatcher, Selkirk and Lake were included in all zones. Rescue and Chinook, both sawfly resistant varieties, were grown in the open prairie region. This region normally includes cereal variety Zones 1A to 2E* but for the purposes of this year's tests Zones 2A and 2E were included with the zones of the parkland region. This was done so that the two rust resistant varieties Selkirk and W-120 could be tested in these two zones in which rust frequently occurs. In the parkland and wooded region (cereal variety Zones 3A and 4B),* as well as in Zones 2A and 2E, Rescue and Chinook were replaced by the varieties Lee and W-120.

DESCRIPTION OF VARIETIES

NOTE—For a report on official recommendations, and yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" on page 14.

Thatcher, the most widely grown spring wheat variety in Saskatchewan, is used in these tests as the standard of comparison for new varieties. It was developed to meet the need for a wheat of high milling and baking quality, which was resistant to the races of rust prevalent in the mid-1930's. Thatcher is highly resistant to spring frost damage and to shattering, but tends to bleach if exposed to fall weathering. It is resistant to loose smut but susceptible to race 15B of stem rust, to leaf rust and to covered smut. It is moderately resistant to rootrot. Thatcher was developed at the Minnesota Agricultural Experiment Station in 1921.

Selkirk is the first bread wheat to be introduced which has resistance to race 15B of stem rust. It was developed at the Laboratory of Cereal Breeding, Winnipeg, and was licensed in 1953. In appearance Selkirk resembles Redman, one of its parents. Compared with Thatcher it has straw of equal length and strength, equal maturity and less tendency to bleach. It has less resistance to shattering. The outstanding feature of Selkirk is its resistance to race 15B of stem rust, but it is also resistant to loose and covered smut.

Lake was developed at the Scott Experimental Station from the cross Regent X Canus, and was licensed for commercial distribution in 1954. It has tall, medium strong straw and is somewhat later in maturity than Thatcher. Lake is resistant to shattering. It is resistant to covered smut but susceptible to race 15B of stem rust, to leaf rust and to loose smut.

Rescue is a solid stemmed, sawfly-resistant variety developed at the Swift Current Experimental Station from a cross between Apex and a solid-stemmed variety. Compared with Thatcher it is equal in height, and slightly later in maturity. It has slightly weaker straw and less resistance to shattering but more resistance to bleaching. Rescue is moderately susceptible to common rootrot, susceptible to covered and loose smut and to leaf rust and race 15B of stem rust. It is also susceptible to spring frost damage.

Chinook is a sawfly-resistant variety developed at the Swift Current Experimental Station. It is the result of a cross between Thatcher and a solid-stemmed variety. Chinook is superior to Rescue in quality and in bushel weight. Compared with Thatcher it has taller, weaker straw, equal maturity and less resistance to shattering. It is susceptible to race 15B of stem rust, to loose and covered smut and to leaf rust. Chinook is susceptible to spring frost damage.

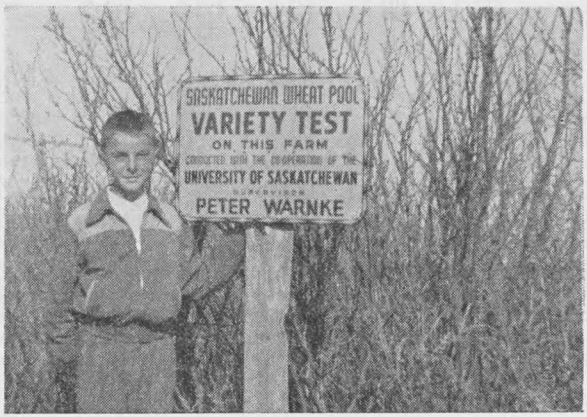
Lee is a bearded, bread wheat developed at the University of Minnesota. Compared with Thatcher it has shorter, slightly weaker straw, slightly later maturity, equal resistance to shattering and equal bushel weight. The kernels are larger and have less tendency to bleach. Lee is resistant to leaf rust and moderately resistant to rootrot, but susceptible to race 15B of stem rust, and to loose and covered smut.

*—See Cereal Variety Zone map, page 41.

W-120—This is a code number for an unlicensed variety developed at the Minnesota Experiment Station from the cross Frontana X Thatcher. Compared with Thatcher it is later in maturity, and has taller, stronger straw. It is resistant to most races of rust, including race 15B, but is susceptible to loose smut. **While this variety produced outstanding yields under rust conditions in 1954, its milling and baking quality proved disappointing. Because of this low quality, seed distribution of this variety has been halted in the United States, and it cannot qualify for licensing under Canadian standards.**

PERFORMANCE OF VARIETIES

Note—Rust had a marked effect on yields in nearly every cereal variety zone in the province in 1954 and this effect must be kept in mind when studying these results. Yield relationships might be entirely different in a year when rust was not prevalent. Straw strength is also materially affected by rust. The susceptible varieties show much less strength of straw than they would under rust free conditions. The influence of rust will also reduce the bushel weight of susceptible varieties.



Peter Warnke of Sedley with the sign which indicates that he conducted a variety test.

TABLE No. 2.—AVERAGE YIELDS IN BUSHELS PER ACRE SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	No. of Satisfactory Tests	Thatcher	Selkirk	Lake	Rescue	Chinook	Lee	W-120	Necessary Difference* in Bushels
1A	21	11.8	21.0	12.6	13.6	12.3	—	—	1.17
1B & 2C	4	24.8	31.9	24.5	25.9	26.6	—	—	4.10
1C	9	16.0	19.3	15.7	18.3	18.6	—	—	2.97
1D	8	18.4	24.5	18.4	20.9	20.2	—	—	1.96
2B	17	9.0	23.8	12.0	11.0	10.1	—	—	1.50
2D	8	10.4	17.4	12.4	12.0	11.1	—	—	1.16
2A	7	10.7	26.3	13.1	—	—	20.8	29.1	2.16
2E	9	5.7	17.5	8.6	—	—	10.5	18.8	2.19
3A	8	9.3	26.5	12.0	—	—	21.5	34.3	4.31
3B	8	9.9	24.1	14.0	—	—	18.4	27.4	3.82
3C	16	10.0	22.7	11.8	—	—	17.5	24.3	2.66
3E	7	11.4	19.6	14.2	—	—	18.6	20.9	2.38
3D & 3J	6	15.6	22.8	15.6	—	—	20.2	23.2	3.42
3F	3	21.3	34.8	25.5	—	—	27.2	37.8	3.85
3G	5	9.6	22.3	13.6	—	—	20.2	28.9	2.81
3H & 4B	4	14.4	23.6	17.5	—	—	18.3	24.3	3.68
4A	3	13.7	21.8	15.5	—	—	13.8	24.9	5.91

* **Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables. little confidence can be placed in the superiority of one variety over the other in that particulat zone group,

Table No. 2. Zones 1A to 2D (except 2A). **Selkirk** placed first in yield in each of these zones. On an average basis **Rescue** placed second, followed by **Chinook. Lake** placed fourth on an average basis, although it was second

in Zones 2B and 2D. **Thatcher** was lowest in yield on an average basis and was either fourth or fifth in every zone.

Zones 2E to 4B (including 2A). Without exception the yield relationship in all these zones was the same. **W-120** outyielded all other varieties included in these tests. However, the reader is referred to the note on its milling and baking quality under Description of Varieties on page 11. **Selkirk** yielded second in all these zones, followed by **Lee. Lake** placed fourth in yield in all zones and **Thatcher** was outyielded by all other varieties tested.

TABLE No. 3.—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Lake	Rescue	Chinook	Lee	W-120
1A	103.7	104.3	104.9	103.3	103.9	—	—
1B & 2C	102.3	107.0	106.3	105.0	103.0	—	—
1C	103.5	103.8	105.8	103.8	103.8	—	—
1D	111.0	114.0	116.0	110.5	110.0	—	—
2B	111.9	115.8	114.1	113.0	112.3	—	—
2D	107.7	109.3	110.3	107.3	107.0	—	—
2A	104.0	106.6	108.2	—	—	105.8	108.8
2E	107.5	109.0	109.3	—	—	111.0	111.8
3A	105.8	107.8	110.0	—	—	108.5	112.3
3B	106.0	107.2	109.6	—	—	109.0	110.6
3C	107.5	109.2	111.8	—	—	109.8	113.0
3E	119.2	120.0	119.8	—	—	118.6	121.0
3D & 3J	113.5	117.5	116.5	—	—	113.0	114.0
3F	107.0	107.0	111.0	—	—	107.0	111.0
3G	129.0	128.5	128.0	—	—	128.0	128.5
3H & 4B	125.0	125.0	125.0	—	—	124.0	119.0
4A	107.0	106.0	110.0	—	—	107.0	107.0

Table No. 3. This table does not show a definite trend in the order of ripening. The effects of rust in some areas made susceptible varieties appear to mature sooner than the resistant varieties which ripened normally. In general **Lake** was somewhat later than the remaining varieties tested, although in a number of zones **W-120** was from one to two days later than **Lake.**

TABLE No. 4.—AVERAGE HEIGHT OF PLANTS IN INCHES SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Lake	Rescue	Chinook	Lee	W-120
1A	25.9	26.8	27.5	27.1	27.1	—	—
1B & 2C	31.8	34.0	35.8	35.8	34.5	—	—
1C	27.3	27.3	28.1	28.6	28.7	—	—
1D	31.2	31.8	33.4	32.6	32.2	—	—
2B	32.8	34.0	34.0	33.6	33.3	—	—
2D	24.3	23.0	26.8	25.0	25.3	—	—
2A	31.6	32.6	34.1	—	—	31.9	33.4
2E	27.2	29.5	29.8	—	—	28.3	30.0
3A	32.8	34.6	33.6	—	—	33.2	36.2
3B	31.2	32.3	33.7	—	—	33.2	35.0
3C	31.9	35.1	34.9	—	—	32.6	36.4
3E	32.7	33.2	34.2	—	—	32.8	34.8
3D & 3J	37.0	38.5	42.5	—	—	37.5	41.5
3F	35.3	35.8	40.0	—	—	35.3	41.3
3G	29.0	32.0	31.5	—	—	33.5	38.0
3H & 4B	32.2	32.4	34.2	—	—	32.0	35.0
4A	31.7	35.0	33.7	—	—	31.7	35.3

Table No. 4. Zones 1A to 2B (except 2A). **Lake** exceeded or equalled all the other varieties in height in five of the six zones. **Rescue** placed second in most of these zones, followed closely by **Chinook.** On an average basis **Selkirk** placed fourth and **Thatcher** was fifth.

Zones 2E to 4B (including 2A). **W-120** was taller than the other varieties tested in all but two of the eleven zones in this region. **Lake** was taller than **Selkirk** in seven of these zones. **Lee** placed fourth on an average basis, followed by **Thatcher.**

TABLE No. 5.—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS 1 (Strong)—9 (Weak) SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Lake	Rescue	Chinook	Lee	W-120
1A	5.5	4.1	5.1	3.8	4.4	—	—
1B & 2C	3.7	5.7	3.4	3.6	2.6	—	—
1C	3.9	5.3	3.9	3.5	4.1	—	—
1D	5.2	4.8	5.0	5.9	5.2	—	—
2B	7.4	4.1	6.7	6.3	5.8	—	—
2D	1.8	1.7	2.4	4.2	3.6	—	—
2A	5.5	3.6	3.2	—	—	3.5	2.2
2E	5.8	4.0	4.9	—	—	4.3	3.3
3A	7.0	3.1	6.0	—	—	3.5	2.9
3B	5.4	3.7	4.7	—	—	4.4	3.8
3C	5.0	2.9	5.0	—	—	4.3	2.9
3E	5.7	3.4	4.9	—	—	3.0	3.1
3D & 3J	4.8	4.0	3.5	—	—	4.4	2.6
3F	4.3	3.6	3.3	—	—	5.1	2.0
3G	9.0	8.2	9.0	—	—	7.3	1.7
3H & 4B	2.0	1.8	2.5	—	—	1.7	2.8
4A	4.5	4.6	4.4	—	—	4.9	3.1

Table No. 5. Zones 1A to 2D (except 2A). The effect of rust in some of these zones was evident in the reported straw strength. In zones where rust was not an important factor, **Rescue** and **Chinook** showed good straw strength, but in the rust zones **Selkirk** appeared somewhat stronger. **Lake** appeared moderately weak, while **Thatcher** showed pronounced weakness in those zones most affected by rust.

Zones 2E to 4B (including 2A). In these zones **W-120** showed good straw strength. **Selkirk** was only slightly weaker in most zones, but in 3G it was considerably weaker. On an average basis **Lee** placed third, while **Lake** and **Thatcher** placed fourth and fifth, in that order. It should be noted that this order might be changed under conditions where rust did not cover such a widespread area as in 1954.

TABLE No. 6.—AVERAGE WEIGHT PER MEASURED BUSHEL SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Lake	Rescue	Chinook	Lee	W-120
1A	51.6	57.6	52.0	55.5	52.6	—	—
1B & 2C	59.0	59.8	59.3	60.5	60.8	—	—
1C	57.1	57.7	57.4	59.6	59.8	—	—
1D	55.2	58.6	56.1	57.8	58.6	—	—
2B	48.4	54.9	50.7	50.3	48.9	—	—
2D	53.6	57.4	54.4	56.1	55.0	—	—
2A	50.1	57.3	53.3	—	—	56.1	59.1
2E	45.0	55.6	48.2	—	—	50.2	58.1
3A	50.8	58.1	53.0	—	—	56.3	59.4
3B	51.8	56.8	52.8	—	—	55.2	58.1
3C	50.7	56.3	53.4	—	—	54.3	57.8
3E	51.6	55.3	53.4	—	—	56.9	58.1
3D & 3J	51.8	53.2	50.7	—	—	51.8	54.3
3F	50.5	53.3	50.8	—	—	50.8	51.8
3G	48.0	54.2	51.2	—	—	53.4	57.4
3H & 4B	54.5	55.3	52.7	—	—	54.0	56.2
4A	54.0	53.7	51.3	—	—	52.3	54.7

Table No. 6. Zones 1A to 2D (except 2A). On the average in these zones **Selkirk** weighed slightly heavier than **Rescue**, which placed second. **Chinook** placed third, followed by **Lake**. **Thatcher** showed low bushel weight as a result of rust in a number of these zones.

Zones 2E to 4B (including 2A). **W-120** exceeded the other varieties in bushel weight in all but one of these eleven zones. **Selkirk** was second, followed by **Lee**. **Lake** and **Thatcher** were considerably lower due to the effect of rust in many of these zones.

TABLE No. 7.—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES
(ZONES 1A TO 2D – except 2A)

Variety	1 Nor.	2 Nor.	3 Nor.	4 Nor.	4 Spec.	No. 5	5 Spec.	No. 6	6 Spec.	Feed
	%	%	%	%	%	%	%	%	%	%
Thatcher	6.0	18.3	3.0	7.6	7.6	7.6	4.5	3.0	9.2	33.2
Selkirk	—	17.6	29.7	29.7	1.4	17.6	—	2.6	—	1.4
Lake	3.0	13.6	13.6	7.6	7.6	13.6	3.0	10.6	6.1	21.3
Rescue	24.3	7.6	9.1	7.6	10.6	4.5	10.6	7.6	4.5	13.6
Chinook	24.2	7.6	7.6	6.1	7.6	1.5	7.6	6.1	3.0	28.7

(ZONES 2E TO 4B – including 2A)

Variety	1 Nor.	2 Nor.	3 Nor.	4 Nor.	4 Spec.	No. 5	5 Spec.	No. 6	6 Spec.	Feed
	%	%	%	%	%	%	%	%	%	%
Thatcher	—	—	3.2	3.2	8.1	11.3	3.2	24.2	1.5	45.3
Selkirk	—	9.7	14.5	27.4	1.6	14.5	—	21.0	—	11.3
Lake	—	1.6	4.8	8.1	1.6	24.2	—	11.3	—	48.4
Lee	—	3.2	9.7	21.0	—	12.9	1.6	19.4	—	32.2
W-120*	—	—	—	—	—	—	—	—	—	—

* Because of its low milling and baking quality W-120 cannot be graded according to Canadian standards.

Table No. 7. Zones 1A to 2D (except 2A). The influence of rust on bushel weight affected the grades materially. In these zones 77% of the **Selkirk** graded 4 Northern or higher. **Rescue** and **Chinook** graded relatively well with 48.6% and 45.7% respectively in these grades. **Lake** had 37.8% in the top four grades and **Thatcher** was last with 34.9%. In non-rust areas **Chinook** and **Rescue** graded well but the influence of rust in other zones is apparent in the substantial percentage of these varieties which graded feed.

Zones 2E to 4B (including 2A). As a result of milling and baking tests carried on in the fall of 1954, it was found that **W-120** was lower in quality than **Thatcher** and because of this it cannot be graded according to Canadian standards. **Selkirk** placed first in grading ability, having 51.6% in the grades 4 Northern or higher. **Lee** performed well with 33.9% in these grades. **Lake** placed third with 14.5% and **Thatcher** placed fourth with 6.4%. The placing of these varieties corresponds to their placing as regards bushel weight.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

In comparing the performance of the varieties in a particular district, it is advisable to study not only the results of an individual test in that district, but also the average results of all tests conducted under similar conditions in the surrounding area. Accordingly the following section of this booklet has been prepared, showing the average results of all successful tests within each cereal variety zone. These zones are illustrated on page 41. Each zone represents an area within which conditions of growth are generally similar, although in some cases local variations occur which may influence the performance of a variety.

Because weather conditions vary considerably from year to year, the results of several years' tests should be considered in judging a variety. The discussions of yield performance which follow are based on information obtained from Wheat Pool tests over a period of years.

The "official recommendations" referred to in the following pages are the recommendations of the Saskatchewan Advisory Council on Grain Crops.

Table No. 8—Summarized Results for Zone 1A
(21 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre	11.8	21.0	12.6	13.6	12.3
Days from seeding to ripening	103.7	104.3	104.9	103.3	103.9
Height of plants in inches	25.9	26.8	27.5	27.1	27.1
Straw Strength (maximum of 1)	5.5	4.1	5.1	3.8	4.4
Bushel weight in pounds	51.6	57.6	52.0	55.5	52.6
Commercial grades in percentage: 1 Nor.	4.6	—	4.6	31.8	27.3
2 Nor.	18.2	22.7	13.6	—	4.5
3 Nor.	9.1	27.3	13.6	4.6	—
4 Nor.	4.5	31.8	4.5	13.6	4.6
No. 4 Spec.	4.5	4.6	4.6	13.6	13.6
No. 5	4.5	13.6	—	—	—
No. 5 Spec.	4.6	—	4.6	13.6	9.1
No. 6	—	—	9.1	4.6	—
No. 6 Spec.	13.6	—	13.6	9.1	—
Feed	36.4	—	31.8	9.1	40.9

Necessary Difference—1.2 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Selkirk significantly outyielded all other varieties in 1954. It placed second in 1953, when it was outyielded by Thatcher. During a number of previous years Thatcher was top yielder in this zone and it is still officially recommended. Since rust is not usually prevalent in Zone 1A, Selkirk is not officially recommended.

Rescue placed second in 1954, although it was fourth in 1953. Because of its sawfly resistance it has proved valuable in this zone, but it is now being replaced by the higher quality Chinook.

Lake and **Chinook** were almost equal in yield in this zone in 1954 and both were higher in yield than Thatcher. Because of its sawfly resistance and high quality, Chinook is officially recommended for Zone 1A.

Thatcher, although low in yield in this year, has performed well in past years when rust was not prevalent. For this reason it is still officially recommended.

Table No. 9—Summarized Results for Zone Group 1B and 2C

(4 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre	24.8	31.9	24.5	25.9	26.6
Days from seeding to ripening	102.3	107.0	106.3	105.0	103.0
Height of plants in inches	31.8	34.0	35.8	35.8	34.5
Straw strength (maximum of 1)	3.7	5.7	3.4	3.6	2.6
Bushel weight in pounds	59.0	59.8	59.3	60.5	60.8
Commercial grades in percentage: 1 Nor.	25.0	—	25.0	50.0	50.0
2 Nor.	50.0	50.0	50.0	25.0	25.0
3 Nor.	—	50.0	—	25.0	—
4 Nor.	—	—	25.0	—	25.0
No. 5	25.0	—	—	—	—

Necessary difference—4.1 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE GROUP 1B AND 2C

Selkirk was highest in yield in this zone group in 1954, although in the previous year it was outyielded by Thatcher. To date Selkirk is only recommended in those zones where it is required for control of rust. It has not been tested sufficiently to accurately predict its performance under rust free conditions.

Chinook outyielded the three remaining varieties in 1954, but in no case was the difference significant. Because of its sawfly resistance, Chinook is officially recommended for Zone 1B.

Rescue placed third in 1954 and has yielded quite satisfactorily in previous years. It is officially recommended for both Zones 1B and 2C.

Thatcher outyielded Lake by a narrow margin in 1954. Because of its good performance over a long period of years, Thatcher is officially recommended in both these zones.

Lake placed fifth of the five varieties tested in 1954 and it placed fourth in 1953 in these zones.

Table No. 10—Summarized Results for Zone 1C

(9 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre	16.0	19.3	15.7	18.3	18.6
Days from seeding to ripening	103.5	103.8	105.8	103.8	103.8
Height of plants in inches	27.3	27.3	28.1	28.6	28.7
Straw strength (maximum of 1)	3.9	5.3	3.9	3.5	4.1
Bushel weight in pounds	57.1	57.7	57.4	59.6	59.8
Commercial grades in percentage: 1 Nor.	10.0	—	—	40.0	60.0
2 Nor.	50.0	10.0	20.0	20.0	—
3 Nor.	—	40.0	40.0	20.0	20.0
4 Nor.	10.0	40.0	—	10.0	10.0
No. 4 Spec.	20.0	—	10.0	10.0	—
No. 5	—	10.0	20.0	—	10.0
No. 5 Spec.	—	—	10.0	—	—
No. 6 Spec.	10.0	—	—	—	—

Necessary difference—3.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Selkirk placed first in yield in this zone in 1954 but the difference was significant only in the case of Thatcher and Lake. In 1953 Selkirk was outyielded by Thatcher and because there is some doubt about its performance under drought conditions, Selkirk is not officially recommended for this zone.

Chinook yielded slightly below Selkirk in 1954 and also in the previous year. Because of its sawfly resistance it is officially recommended for Zone 1C.

Rescue placed third of the varieties tested in the year under review, but was fifth in 1953. It has been replaced by Chinook in the official recommendations for this zone.

Thatcher, although fourth in yield in 1954, has performed well in this zone in previous years when moisture was more limited. Because drought is a common problem in this zone, Thatcher is officially recommended.

Lake was outyielded by all varieties tested in 1954 and it placed fourth in the previous year.

Table No. 11—Summarized Results for Zone 1D

(8 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre	18.4	24.5	18.4	20.9	20.2
Days from seeding to ripening	111.0	114.0	116.0	110.5	110.0
Plant height in inches	31.2	31.8	33.4	32.6	32.2
Straw strength (maximum of 1)	5.2	4.8	5.0	5.9	5.2
Bushel weight in pounds	55.2	58.6	56.1	57.8	58.6
Commercial grades in percentage: 1 Nor.	10.0	—	—	30.0	20.0
2 Nor.	10.0	40.0	20.0	20.0	30.0
3 Nor.	—	40.0	20.0	20.0	30.0
4 Nor.	30.0	20.0	30.0	10.0	10.0
No 4 Spec.	20.0	—	20.0	10.0	—
No. 5	20.0	—	10.0	—	—
No. 5 Spec.	10.0	—	—	10.0	10.0

Necessary difference—2.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Selkirk was top yielder in this zone in 1954, but was outyielded by Thatcher in 1953. At the present time Selkirk is only recommended in areas where it is required for control of stem rust, which is not usually an important factor in this zone.

Rescue placed second in this zone, where it is officially recommended because of its sawfly resistance.

Chinook yielded slightly below Rescue in both 1953 and 1954. Because of this and because it has less sawfly resistance than Rescue it is not recommended for this zone.

Thatcher and **Lake** yielded equally well in 1954 and because both are noted for their drought resistance, they are both recommended for this zone.

Table No. 12—Summarized Results for Zone 2A

(7 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	10.7	26.3	13.1	20.8	29.1
Days from seeding to ripening	104.0	106.6	108.2	105.8	108.8
Plant height in inches	31.6	32.6	34.1	31.9	33.4
Straw strength (maximum of 1)	5.5	3.6	3.2	3.5	2.2
Bushel weight in pounds	50.1	57.3	53.3	56.1	59.1
Commercial grades in percentage: 2 Nor.	—	12.5	—	—	—
3 Nor.	—	50.0	—	25.0	—
4 Nor.	—	37.5	—	50.0	—
No. 5	25.0	—	87.5	12.5	—
No. 5 Spec.	—	—	—	12.5	—
No. 6	37.5	—	—	—	—
No. 6 Spec.	12.5	—	—	—	—
Feed	25.0	—	12.5	—	—

Necessary difference—2.2 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

W-120 significantly outyielded the other varieties tested in this zone. However, as pointed out in the description of varieties, it is lower in milling and baking quality than the varieties acceptable under Canadian standards. It has been tested by the Wheat Pool for one year only.

Selkirk placed second in this zone, where it was high yielder in 1953. This zone is one where rust is an important factor and for this reason Selkirk is officially recommended.

Lee ranked third in this zone, significantly outyielding Thatcher and Lake. Because of its resistance to leaf rust, Lee has performed well in this zone during the past two years, and it is officially recommended.

Lake placed fourth in yield in 1954 and was outyielded by the four other varieties tested in 1953.

Thatcher has produced relatively low yields in this zone during the last two years due to serious rust damage, but it is still officially recommended as a third choice, on the basis of its performance under rust free and drought conditions.

Table No. 13—Summarized Results for Zone 2B

(17 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre	9.0	23.8	12.0	11.0	10.1
Days from seeding to ripening	111.9	115.8	114.1	113.0	112.3
Plant height in inches	32.8	34.0	34.0	33.6	33.3
Straw strength (maximum of 1)	7.4	4.1	6.7	6.3	5.8
Bushel weight in pounds	48.4	54.9	50.7	50.3	48.9
Commercial grades in percentage: 3 Nor.	—	20.0	—	—	—
4 Nor.	—	30.0	—	—	—
No. 4 Spec.	—	—	5.0	10.0	10.0
No. 5	5.0	35.0	30.0	15.0	—
No. 5 Spec.	5.0	—	—	15.0	10.0
No. 6	10.0	10.0	25.0	20.0	20.0
No. 6 Spec.	10.0	—	5.0	5.0	10.0
Feed	70.0	5.0	35.0	35.0	50.0

Necessary difference—1.5 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Selkirk outyielded the other varieties in this zone in 1954, and it performed well in 1953. This large zone often suffers from insufficient moisture. Some parts of it are subject to sawfly damage, and rust is a hazard in the southeast portion. Because of these factors four varieties are officially recommended. Selkirk is recommended because of its resistance to rust, Chinook because of its resistance to sawfly damage, Thatcher because of its good yield performance in this zone over many years, and Lake which has yielded well in tests conducted during the last two years. Both Thatcher and Lake yield well under dry conditions.

Lake placed second in 1954 and third in 1953. Although somewhat later maturing than the other varieties, Lake has yielded well under limited moisture conditions and as mentioned above, is officially recommended for this zone.

Rescue ranked third in yield, exceeding Chinook by a narrow margin.

Chinook placed fourth in yield in 1954 but in the previous year it produced equally with the highest yielding variety in the zone. Its resistance to sawfly damage makes it valuable in this zone.

Thatcher was seriously damaged by rust in this zone in 1954 and produced very low yields. However, it has performed well over a long period of years in this zone and is still officially recommended.

Cereal Variety Zone 2C

Only one successful test was conducted in this zone and for analysis purposes it was combined with Zone 1B. The results of this test will be found in the table "Individual Results of All Tests—Wheat" under District 4, Subdistrict 4, conducted by Harriet G. Benjamin of Webb. Rescue and Thatcher are officially recommended in Zone 2C.

Table No. 14—Summarized Results for Zone 2D

(8 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre	10.4	17.4	12.4	12.0	11.1
Days from seeding to ripening	107.7	109.3	110.3	107.3	107.0
Plant height in inches	24.3	23.0	26.8	25.0	25.3
Straw strength (maximum of 1)	1.8	1.7	2.4	4.2	3.6
Bushel weight in pounds	53.6	57.4	54.4	56.1	55.0
Commercial grades in percentage: 2 Nor.	—	12.5	—	12.5	12.5
3 Nor.	12.5	25.0	25.0	25.0	12.5
4 Nor.	—	37.5	—	25.0	12.5
No. 4 Spec.	25.0	—	12.5	—	12.5
No. 5	37.5	25.0	37.5	12.5	25.0
No. 5 Spec.	—	—	—	—	12.5
No. 6	25.0	—	12.5	25.0	—
Feed	—	—	12.5	—	12.5

Necessary difference—1.2 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Selkirk significantly outyielded the other four varieties in this zone in 1954. However, in most years rust is not a factor in this zone and Selkirk is not recommended.

Lake appears to be particularly adapted to this area and it has yielded well in two years testing by the Wheat Pool. Because of this performance and because of its drought resistance it is officially recommended for the zone.

Rescue was slightly lower in yield than Lake in both 1953 and 1954. While it outyielded Chinook in 1954, the situation was reversed in the previous year, and due to the lower quality of Rescue, it is not officially recommended for this zone.

Chinook placed fourth in yield for this year, but because of its satisfactory performance in past years and its high quality, it is officially recommended.

Thatcher was outyielded by the other varieties tested, due to extensive rust damage. Notwithstanding this, because of its drought resistance and other desirable characteristics, Thatcher is still officially recommended for Zone 2D.

In addition to the varieties mentioned above, Apex is also recommended.



David Hainstock of Hart with some of the sheaves from his wheat test.

CEREAL VARIETY ZONES 2E TO 4B

It is interesting to note that in these zones, as well as in Zone 2A described above, the placing of the five varieties tested in 1954 was identical. W-120 placed first, followed by Selkirk, Lee, Lake and Thatcher in that order. Because of this identical placing the comments relating to each zone are confined to variety relationships during previous years and to the official recommendations for each zone. With regard to the performance of W-120, tested by the Wheat Pool for the first time this year, the reader is referred to the comment on its milling and baking quality under the heading "Description of Varieties" on page 11.

Selkirk produced outstanding results in these zones in 1954. At the present time it is only recommended in those zones where it is required for control of rust. It appears to be adapted also to a number of zones in the parkland region where rust is not usually a factor, but further testing is necessary before it can be officially recommended for these zones.

Table No. 15—Summarized Results for Zone 2E

(9 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	5.7	17.5	8.6	10.5	18.8
Days from seeding to ripening	107.5	109.0	109.3	111.0	111.8
Plant height in inches	27.2	29.5	29.8	28.3	30.0
Straw strength (maximum of 1)	5.8	4.0	4.9	4.3	3.3
Bushel weight in pounds	45.0	55.6	48.2	50.2	58.1
Commercial grades in percentage: 2 Nor.	—	11.1	—	—	—
3 Nor.	—	22.2	—	—	—
4 Nor.	—	11.1	11.1	11.1	—
No. 4 Spec.	—	11.1	—	—	—
No. 5	—	33.4	—	11.1	—
No. 5 Spec.	11.1	—	—	—	—
No. 6	—	11.1	11.1	33.3	—
Feed	88.9	—	77.8	44.5	—

Necessary difference—2.2 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

In this zone, during the last two years **Lee** has outyielded **Thatcher** but prior to that time the reverse was true. This change is due to the effect of rust and because of it the varieties officially recommended for Zone 2E are Lee and Selkirk with Thatcher as a third choice.

Table No. 16—Summarized Results for Zone 3A

(8 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	9.3	26.5	12.0	21.5	34.3
Days from seeding to ripening	105.8	107.8	110.0	108.5	112.3
Plant height in inches	32.8	34.6	33.6	33.2	36.2
Straw strength (maximum of 1)	7.0	3.1	6.0	3.5	2.9
Bushel weight in pounds	50.8	58.1	53.0	56.3	59.4
Commercial grades in percentage: 2 Nor.	—	22.2	—	11.1	—
3 Nor.	—	22.2	22.3	22.2	—
4 Nor.	11.1	33.4	—	22.2	—
No. 4 Spec.	22.2	—	—	—	—
No. 5	11.1	11.1	44.4	11.1	—
No. 6	11.1	11.1	—	—	—
Feed	44.5	—	33.3	33.4	—

Necessary difference—4.3 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Zone 3A is traditionally a rust area. For this reason **Selkirk** and **Lee** are officially recommended. Leaf rust has been severe here in many years when other parts of the province were not affected. The past performance of Lee has been good in this zone because of its leaf rust resistance. **Thatcher** is retained in the recommendation for this zone as a third choice.

Table No. 17—Summarized Results for Zone 3B

(8 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	9.9	24.1	14.0	18.4	27.4
Days from seeding to ripening	106.0	107.2	109.6	109.0	110.6
Plant height in inches	31.2	32.3	33.7	33.2	35.0
Straw strength (maximum of 1)	5.4	3.7	4.7	4.4	3.8
Bushel weight in pounds	51.8	56.8	52.8	55.2	58.1
Commercial grades in percentage: 2 Nor	—	11.1	11.1	11.1	—
3 Nor	11.1	11.1	11.1	11.1	—
4 Nor	—	22.2	—	—	—
No. 5	11.1	11.1	—	33.4	—
No. 6	33.3	44.5	22.2	33.3	—
Feed	44.5	—	55.6	11.1	—

Necessary difference—3.8 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Zone 3B, bordering on Manitoba, is usually subject to rust. For this reason **Selkirk** is recommended, together with **Lee**, which is well adapted to this zone in most years. **Thatcher** is recommended as a third choice on the basis of its performance under rust-free conditions.

Table No. 18—Summarized Results for Zone 3C

(16 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	10.0	22.7	11.8	17.5	24.3
Days from seeding to ripening	107.5	109.2	111.8	109.8	113.0
Plant height in inches	31.9	35.1	34.9	32.6	36.4
Straw strength (maximum of 1)	5.0	2.9	5.0	4.3	2.9
Bushel weight in pounds	50.7	56.3	53.4	54.3	57.8
Commercial grades in percentage: 3 Nor	—	10.5	5.3	10.5	—
4 Nor	5.3	15.8	10.5	10.5	—
No. 4 Spec	5.3	—	—	—	—
No. 5	10.5	47.4	26.3	21.1	—
No. 6	21.0	26.3	36.8	36.8	—
Feed	57.9	—	21.1	21.1	—

Necessary difference—2.7 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Because rust has been an important factor in this zone in recent years, **Selkirk** and **Lee** are recommended, with **Thatcher** as a third choice. In the years 1950, 1951 and 1952 Thatcher outyielded Lee and it would be expected to do so again in this zone under rust-free conditions.

Table No. 19—Summarized Results for Zone Group 3D and 3J

(6 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	15.6	22.8	15.6	20.2	23.2
Days from seeding to ripening	113.5	117.5	116.5	113.0	114.0
Plant height in inches	37.0	38.5	42.5	37.5	41.5
Straw strength (maximum of 1)	4.8	4.0	3.5	4.4	2.6
Bushel weight in pounds	51.8	53.2	50.7	51.8	54.3
Commercial grades in percentage: 4 Nor	16.7	16.7	—	16.7	—
No. 5	—	16.7	16.7	—	—
No. 6	50.0	33.3	—	33.3	—
Feed	33.3	33.3	83.3	50.0	—

Necessary difference—3.4 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE GROUP 3D AND 3J

In spite of the yield results in 1954, **Thatcher** is the only variety officially recommended in both these zones. In Zone 3D it placed first or second in yield in four of the six previous years. Yield data is available for Zone 3J for only two years. In 1953 Thatcher was exceeded in yield only by Selkirk. Since in most years rust is not an important factor in this zone, resistant varieties are not required.

Table No. 20—Summarized Results for Zone 3E

(7 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	11.4	19.6	14.2	18.6	20.9
Days from seeding to ripening	119.2	120.0	119.8	118.6	121.0
Plant height in inches	32.7	33.2	34.2	32.8	34.8
Straw strength (maximum of 1)	5.7	3.4	4.9	3.0	3.1
Bushel weight in pounds	51.6	55.3	53.4	56.9	58.1
Commercial grades in percentage: 2 Nor.	—	14.3	—	—	—
3 Nor.	—	—	—	14.3	—
4 Nor.	—	42.8	42.8	42.8	—
No. 4 Spec.	14.3	—	14.3	—	—
No. 5	28.5	14.3	—	—	—
No. 5 Spec.	14.3	—	—	—	—
No. 6	14.3	14.3	28.6	28.6	—
Feed	28.6	14.3	14.3	14.3	—

Necessary difference—2.4 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Although **Thatcher** and **Lake** were relatively low in yield in this zone in 1954 due to rust damage, in previous years' testing they performed well and both are officially recommended. In only one year of the previous 13 did Thatcher place lower than first or second. Lake has been tested by the Wheat Pool for only two years but it appears to be well adapted to this zone.

Table No. 21—Summarized Results for Zone 3F

(3 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	21.3	34.8	25.5	27.2	37.8
Days from seeding to ripening	107.0	107.0	111.0	107.0	111.0
Plant height in inches	35.3	35.8	40.0	35.3	41.3
Straw strength (maximum of 1)	4.3	3.6	3.3	5.1	2.0
Bushel weight in pounds	50.5	53.3	50.8	50.8	51.8
Commercial grades in percentage: 3 Nor.	20.0	—	—	—	—
4 Nor.	—	40.0	20.0	20.0	—
No. 5	20.0	20.0	20.0	20.0	—
No. 6	—	—	20.0	—	—
Feed	60.0	40.0	40.0	60.0	—

Necessary difference—3.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Thatcher, the only officially recommended variety for this zone, was low in yield in the year under review, but placed second in 1953 and first in 1952. Rust is not common in this zone so resistance to this disease is not of primary importance.

Table No. 22—Summarized Results for Zone 3G

(5 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yields in bushels per acre	9.6	22.3	13.6	20.2	28.9
Days from seeding to ripening	129.0	128.5	128.0	128.0	128.5
Plant height in inches	29.0	32.0	31.5	33.5	38.0
Straw strength (maximum of 1)	9.0	8.2	9.0	7.3	1.7
Bushel weight in pounds	48.0	54.2	51.2	53.4	57.4
Commercial grades in percentage: 4 Nor.	—	20.0	—	—	—
No. 5	—	40.0	—	40.0	—
No. 6	—	40.0	60.0	60.0	—
Feed	100.0	—	40.0	—	—

Necessary difference—2.8 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

In this zone **Thatcher** is officially recommended because of its performance in past years, and **Lake** is also recommended on the basis of several years' testing. **Lee** yielded well in 1954 due to its leaf rust resistance, but its performance in recent years does not justify recommending it.

Table No. 23—Summarized Results for Zone Group 3H and 4B

(4 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	14.4	23.6	17.5	18.3	24.3
Days from seeding to ripening	125.0	125.0	125.0	124.0	119.0
Plant height in inches	32.2	32.4	34.2	32.0	35.0
Straw strength (maximum of 1)	2.0	1.8	2.5	1.7	2.8
Bushel weight in pounds	54.5	55.3	52.7	54.0	56.2
Commercial grades in percentage: 4 Nor.	33.3	33.3	—	16.7	—
No. 5	—	16.7	33.3	16.7	—
No. 6	33.3	33.3	16.7	16.6	—
Feed	33.4	16.7	50.0	50.0	—

Necessary difference—3.7 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE GROUP 3H AND 4B

In these zones, as in 3G, the 1954 yield results do not reflect normal conditions. On the basis of previous years' results **Thatcher** and **Lake** are officially recommended for both 3H and 4B.

Table No. 24—Summarized Results for Zone 4A

(3 satisfactory tests)

	Thatcher	Selkirk	Lake	Lee	W-120
Yield in bushels per acre	13.7	21.8	15.5	13.8	24.9
Days from seeding to ripening	107.0	106.0	110.0	107.0	107.0
Plant height in inches	31.7	35.0	33.7	31.7	35.3
Straw strength (maximum of 1)	4.5	4.6	4.4	4.9	3.1
Bushel weight in pounds	54.0	53.7	51.3	52.3	54.7
Commercial grades in percentage: No. 6	66.7	66.7	—	33.3	—
Feed	33.3	33.3	100.0	66.7	—

Necessary difference—5.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Thatcher has for many years yielded well in this zone, and **Lake**, in spite of being somewhat later maturing than the other varieties, appears to be adapted to this area. Both are officially recommended.



George Mergen of Limerick preparing a report on the progress of his wheat test.

Table No. 25

Individual Summarized Results of All Tests—Wheat

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
R. COLIN COWAN, CARIEVALE										
3A	1	1	Thatcher	4.5	102	—	8.0	44	Fd.	—
			Selkirk	18.6	103	—	3.0	56	4 N.	—
			Lake	7.4	107	—	7.0	46	Fd.	—
			Lee	11.0	107	—	3.0	49	Fd.	—
			W-120	25.5	113	—	2.0	59	*	—
Necessary difference—2.4 bushels.										
CLARENCE F. FUNK, FERTILE										
3A	1	2	Thatcher	8.9	98	—	9.0	56	4 N.	—
			Selkirk	22.1	105	—	1.0	61	2 N.	I.
			Lake	12.7	98	—	7.0	58	3 N.	I.
			Lee	15.1	101	—	2.0	62	2 N.	I.
			W-120	17.4	105	—	1.0	62	*	—
Necessary difference—2.1 bushels.										
WAYNE C. WOOLFITT, AUBURNTON										
3A	1	3	Thatcher	9.4	106	36	6.0	51	No. 6	F.
			Selkirk	26.1	108	35	2.0	56	4 N.	—
			Lake	9.6	113	34	9.0	53	No. 5	—
			Lee	22.4	107	35	3.0	56	4 N.	—
			W-120	34.4	110	39	4.0	60	*	—
Necessary difference—6.9 bushels.										
WILLIAM E. OSBORNE, VIEWFIELD										
2A	1	5	Thatcher	13.1	—	34	5.3	50	Fd.	—
			Selkirk	30.6	—	35	2.5	52	4 N.	G., I.
			Lake	15.9	—	34	4.8	53	No. 5	I.
			Lee	24.9	—	35	2.5	56	4 N.	—
			W-120	35.9	—	34	2.0	59	*	—
Necessary difference—5.1 bushels.										
DENIS K. SCHNELL, TORQUAY										
2A	1	6	Thatcher	12.1	98	35	4.3	53	No. 5	I.
			Selkirk	32.1	102	32	5.3	60	3 N.	G., I.
			Lake	17.1	102	34	3.8	54	No. 5	I.
			Lee	21.8	102	33	3.5	59	3 N.	G., I.
			W-120	31.1	104	36	3.0	62	*	—
Necessary difference—2.9 bushels.										
GORDON J. MCLEOD, COLGATE										
2A	1	7	Thatcher	10.0	—	24	7.0	49	6 Sp.	—
			Selkirk	24.2	—	26	1.0	59	3 N.	I.
			Lake	11.8	—	28	1.0	53	No. 5	I.
			Lee	18.8	—	25	2.0	56	4 N.	—
			W-120	22.5	—	26	1.0	60	*	—
Necessary difference—3.5 bushels.										
MERLE C. LEAVENS, WEYBURN										
2A	1	8	Thatcher	9.4	97	30	3.0	51	No. 6	I.
			Selkirk	25.5	99	31	2.0	58	3 N.	G., I.
			Lake	11.0	99	33	2.0	53	No. 5	I.
			Lee	22.4	99	30	2.0	57	3 N.	—
			W-120	35.8	99	31	1.0	61	*	—
Necessary difference—3.6 bushels.										
EDWARD L. MARSH, ARCOLA										
3A	1	9	Thatcher	3.6	—	30	9.0	54	4 Sp.	—
			Selkirk	14.0	—	32	1.5	59	3 N.	I.
			Lake	6.1	—	31	4.8	55	No. 5	I.
			Lee	13.1	—	31	3.8	60	3 N.	I.
			W-120	16.8	—	35	5.3	61	*	—
Necessary difference—3.1 bushels.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DONALD S. DOTY, CARLYLE										
3A	1	10	Thatcher	10.6	95	—	—	53	No. 5	I.
			Selkirk	34.0	96	—	—	60	3 N.	G., I.
			Lake	10.8	104	—	—	54	No. 5	I.
			Lee	25.8	102	—	—	59	3 N.	G., I.
			W-120	35.9	104	—	—	61	*	—
Necessary difference—3.7 bushels.										

* W-120 wheat has proved lower in milling and baking quality than Thatcher, so it cannot be graded under the usual Canadian standards.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3A	1	3	Herbert A. Hawker, Glen Ewen.
2A	1	4	Armin Rothenburger, Lampman.

WHEAT POOL DISTRICT 2

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LEO. V. JOSEPHSON, RADVILLE										
2A	2	1	Thatcher	6.0	—	—	—	43	Fd.	—
			Selkirk	23.6	—	—	—	57	3 N.	—
			Lake	6.9	—	—	—	47	Fd.	—
			Rescue	10.7	—	—	—	51	5 Sp.	—
			Chinook	7.8	—	—	—	49	6 Sp.	—
Samples incomplete—yields not included in zone summary.										
DAVID HAINSTOCK, HART										
1A	2	3	Thatcher	19.0	104	26	7.0	59	2 N.	—
			Selkirk	28.7	106	27	7.0	62	2 N.	I.
			Lake	18.5	104	27	7.0	59	2 N.	—
			Rescue	19.5	105	27	2.5	62	1 N.	—
			Chinook	19.5	104	29	2.0	62	1 N.	—
Necessary difference—1.7 bushels.										
STEVE J. DAVEY, LONESOME BUTTE										
1C	2	5	Thatcher	7.1	—	—	—	49	6 Sp.	—
			Selkirk	12.8	—	—	—	56	4 N.	—
			Lake	7.9	—	—	—	53	No. 5	—
			Rescue	8.5	—	—	—	56	4 N.	—
			Chinook	8.5	—	—	—	53	No. 5	—
Necessary difference—2.0 bushels.										
KARL SAWILLA, CANOPUS										
1C	2	5	Thatcher	18.1	82	—	—	56	4 N.	—
			Selkirk	36.5	82	—	—	59	4 N.	D., G.
			Lake	23.5	87	—	—	56	No. 5	D., G.
			Rescue	21.0	82	—	—	59	3 N.	G.
			Chinook	19.3	83	—	—	57	3 N.	—
Necessary difference—2.5 bushels.										
A. LORNE ELLIS, LAFLECHE										
1A	2	6	Thatcher	21.8	—	—	—	60	3 N.	G., I.
			Selkirk	30.0	—	—	—	60	3 N.	G., I.
			Lake	21.7	—	—	—	59	3 N.	G., I.
			Rescue	23.8	—	—	—	62	1 N.	—
			Chinook	21.6	—	—	—	61	1 N.	—
Necessary difference—3.1 bushels.										
GEORGE D. MERGEN, LIMERICK										
1C	2	7	Thatcher	14.4	—	32	—	54	4 Sp.	—
			Selkirk	13.9	—	32	—	59	3 N.	I.
			Lake	11.5	—	33	—	53	4 Sp.	—
			Rescue	17.8	—	32	—	58	3 N.	I.
			Chinook	16.6	—	32	—	57	3 N.	—
Necessary difference—3.0 bushels.										
GORDON G. FRENTZ, ORMISTON										
1A	2	8	Thatcher	4.2	—	—	—	47	Fd.	—
			Selkirk	12.7	—	—	—	56	4 N.	—
			Lake	6.2	—	—	—	49	6 Sp.	—
			Rescue	7.4	—	—	—	53	4 Sp.	—
			Chinook	5.8	—	—	—	47	Fd.	—
Necessary difference—1.6 bushels.										
CARL H. SORENSEN, BURES										
1A	2	9	Thatcher	6.0	106	24	6.0	47	Fd.	—
			Selkirk	21.5	106	30	1.0	56	4 N.	—
			Lake	8.6	107	28	7.0	50	Fd.	G.
			Rescue	8.0	105	24	2.0	50	6 Sp.	—
			Chinook	7.5	108	25	7.0	48	Fd.	—
Necessary difference—2.0 bushels.										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1A	2	4	George Lacerte, Willow Bunch.
2A	2	10	Wayne Clews, Pangman.

WHEAT POOL DISTRICT 3

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROMEO E. MORIN, FERLAND										
1C	3	1	Thatcher	15.2	—	—	4.5	53	4 Sp.	—
			Selkirk	18.1	—	—	7.3	57	3 N.	—
			Lake	12.1	—	—	5.8	51	5 Sp.	—
			Rescue	13.9	—	—	4.0	55	4 Sp.	—
			Chinook	14.0	—	—	4.5	56	4 N.	—
Necessary difference—2.2 bushels.										
DAVID R. THOMPSON, BRACKEN										
1C	3	3	Thatcher	15.9	104	24	2.5	59	2 N.	I.
			Selkirk	13.4	104	24	4.3	56	4 N.	—
			Lake	12.0	105	24	2.8	60	2 N.	I.
			Rescue	13.0	104	24	1.5	60	2 N.	I.
			Chinook	17.3	104	26	2.5	62	1 N.	—
Necessary difference—1.2 bushels.										
EUGENE C. CASAT, CLAYDON										
1C	3	4	Thatcher	25.4	107	—	2.0	63	1 N.	—
			Selkirk	22.9	107	—	3.0	61	2 N.	I.
			Lake	18.2	109	—	2.0	62	3 N.	I.
			Rescue	18.6	108	—	1.0	64	1 N.	—
			Chinook	24.0	110	—	4.0	65	1 N.	—
Test damaged by mice—yields not included in zone summary.										
RICHARD KALMRING, GOVENLOCK										
1C	3	5	Thatcher	10.8	—	23	6.0	59	2 N.	—
			Selkirk	12.1	—	24	6.0	57	3 N.	—
			Lake	14.6	—	25	6.5	60	3 N.	G., I.
			Rescue	21.7	—	25	6.8	60	1 N.	—
			Chinook	20.6	—	26	7.8	62	1 N.	—
Necessary difference—2.0 bushels.										
GLEN F. DUKE, EASTEND										
1C	3	7	Thatcher	21.9	121	25	5.3	59	2 N.	—
			Selkirk	17.2	122	24	7.0	56	4 N.	—
			Lake	17.0	122	25	4.3	60	2 N.	I.
			Rescue	21.3	121	26	4.0	61	1 N.	—
			Chinook	22.4	118	26	3.0	62	1 N.	—
Necessary difference—1.8 bushels.										
WALTER H. WERNICKE, CADILLAC										
1C	3	9	Thatcher	18.3	—	28	6.0	59	2 N.	—
			Selkirk	17.2	—	28	8.3	55	No. 5	I.
			Lake	17.4	—	29	4.8	60	3 N.	G., I
			Rescue	20.4	—	31	4.0	62	2 N.	I.
			Chinook	22.8	—	31	5.0	63	1 N.	—
Necessary difference—1.6 bushels.										
BERNARD J. PIGOTT, ANEROID										
1C	3	10	Thatcher	22.4	—	35	1.3	60	2 N.	I.
			Selkirk	32.2	—	35	1.5	61	3 N.	I.
			Lake	24.9	—	35	1.3	59	3 N.	I.
			Rescue	27.5	—	37	3.3	61	1 N.	—
			Chinook	26.0	—	36	2.0	61	1 N.	—
Necessary difference—4.3 bushels.										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1C	3	6	Ryott A. Barroby Jr., Ravenscrag.
2C	3	6	G. Fred Kendrick, Eastend.
1C	3	7	Irvine E. A. Pidt, Eastend.
1C	3	8	John R. Lorge, Shaunavon.

WHEAT POOL DISTRICT 4

GLEN A. NICOL, TOMPKINS										
1B	4	1	Thatcher	23.3	104	26	5.8	60	2 N.	Bl.
			Selkirk	23.8	106	26	9.0	57	3 N.	—
			Lake	23.5	106	27	7.3	60	2 N.	Bl.
			Rescue	23.1	106	28	3.0	61	2 N.	Bl.
			Chinook	22.8	105	26	2.8	61	2 N.	Bl.
No significant grain yield difference between varieties.										
MURRAY TRYTTEN, STEWART VALLEY										
1A	4	3	Thatcher	22.9	104	31	2.0	59	2 N.	—
			Selkirk	27.0	104	31	4.0	60	3 N.	G., I.
			Lake	23.0	104	34	4.0	59	3 N.	G., I.
			Rescue	22.4	102	32	2.0	62	1 N.	—
			Chinook	19.7	102	33	2.0	62	1 N.	—
Necessary difference—2.4 bushels.										

Wheat Pool District 4—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
HARRIET G. BENJAMIN, WEBB										
2C	4	4	Thatcher	35.9	—	35	1.5	60	2 N.	I.
			Selkirk	49.4	—	36	2.0	63	2 N.	I.
			Lake	34.0	—	37	1.0	61	2 N.	I.
			Rescue	34.7	—	36	2.8	62	1 N.	—
			Chinook	37.7	—	36	1.0	62	1 N.	—
Necessary difference—4.7 bushels.										
LEONARD J. KELSEY, CABRI										
1D	4	5	Thatcher	20.0	—	30	—	56	4 N.	—
			Selkirk	25.1	—	30	—	59	2 N.	—
			Lake	16.5	—	34	—	55	4 Sp.	—
			Rescue	25.3	—	30	—	58	2 N.	—
			Chinook	22.7	—	32	—	59	2 N.	—
Necessary difference—2.7 bushels.										
CAROL E. ARNOLD, GOLDEN PRAIRIE										
1B	4	6	Thatcher	16.8	106	35	3.8	55	No. 5	I.
			Selkirk	30.4	115	41	4.3	60	2 N.	I.
			Lake	19.0	113	44	2.3	56	4 N.	—
			Rescue	22.2	113	45	5.0	57	3 N.	—
			Chinook	21.1	106	43	2.5	56	4 N.	—
Necessary difference—3.1 bushels.										
ROY D. REDICK, MAPLE CREEK										
1B	4	6	Thatcher	23.3	97	31	3.5	61	1 N.	—
			Selkirk	24.0	100	33	7.5	59	3 N.	I.
			Lake	21.6	100	35	2.8	60	1 N.	—
			Rescue	23.7	96	34	3.5	62	1 N.	—
			Chinook	24.8	98	33	4.0	64	1 N.	—
No significant grain yield difference between varieties.										
JUDITH GILL, LEADER										
1D	4	8	Thatcher	26.0	—	31	8.0	53	No. 5	—
			Selkirk	47.0	—	36	8.0	59	3 N.	G., I.
			Lake	29.6	—	38	8.0	55	3 N.	I.
			Rescue	38.1	—	37	9.0	59	3 N.	I.
			Chinook	27.1	—	33	9.0	59	3 N.	I.
Samples bulked—yields not included in zone summary.										
DARYL W. SMITH, LEMSFORD										
1D	4	9	Thatcher	7.5	—	—	—	52	5 Sp.	—
			Selkirk	11.5	—	—	—	56	4 N.	—
			Lake	10.2	—	—	—	54	4 Sp.	—
			Rescue	6.2	—	—	—	53	4 Sp.	—
			Chinook	8.1	—	—	—	56	4 N.	—
Test damaged by livestock—yields not included in zone summary.										
Yields discarded on account of damage by flooding, pests, hail, drought or other causes										
1B	4	2	Gordon Ford, Maple Creek.							
1B	4	7	Margaret Rose Kuntz, Richmond.							

WHEAT POOL DISTRICT 5

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
WILLIAM J. WOLFE, MAZENOD										
1A	5	1	Thatcher	8.4	—	—	—	46	Fd.	—
			Selkirk	21.1	—	—	—	56	4 N.	—
			Lake	9.6	—	—	—	45	Fd.	Spr.
			Rescue	9.9	—	—	—	51	5 Sp.	—
			Chinook	10.6	—	—	—	48	Fd.	—
Necessary difference—1.8 bushels.										
LYLE H. SORSDAHL, MOSSBANK										
1A	5	1	Thatcher	3.8	91	20	4.8	44	Fd.	—
			Selkirk	12.6	93	22	4.5	55	No. 5	F.
			Lake	4.9	92	24	2.8	42	Fd.	—
			Rescue	6.8	93	24	2.3	47	Fd.	—
			Chinook	5.3	93	23	2.5	42	Fd.	—
Test damaged by cutworms—yields not included in zone summary.										
GLENN A. MILLER, GRAVELBOURG										
1A	5	2	Thatcher	4.0	—	26	7.3	44	Fd.	—
			Selkirk	14.3	—	28	2.0	55	No. 5	I.
			Lake	5.2	—	26	8.0	44	Fd.	—
			Rescue	5.0	—	26	4.8	48	Fd.	—
			Chinook	4.0	—	27	5.8	42	Fd.	—
Necessary difference—0.9 bushels.										

Wheat Pool District 5—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LORRAINE AND MARILYN BOLEN, GLEN BAIN										
1A	5	2	Thatcher	20.9	—	—	—	61	2 N.	I.
			Selkirk	25.6	—	—	—	61	2 N.	I.
			Lake	22.3	—	—	—	59	2 N.	—
			Rescue	21.3	—	—	—	62	1 N.	—
			Chinook	21.6	—	—	—	63	1 N.	—
No significant grain yield difference between varieties.										
JEAN E. JORGENSEN, PAMBRUN										
1A	5	3	Thatcher	18.8	101	29	7.0	61	1 N.	—
			Selkirk	20.0	99	28	5.5	59	2 N.	—
			Lake	16.9	100	28	6.8	61	1 N.	—
			Rescue	18.4	99	30	7.5	63	1 N.	—
			Chinook	17.4	100	30	8.0	62	1 N.	—
Necessary difference—1.4 bushels.										
KENNETH G. CHRISTOPHER, PAMBRUN										
1A	5	3	Thatcher	9.4	115	25	1.3	57	3 N.	—
			Selkirk	16.0	114	25	1.0	60	2 N.	I.
			Lake	9.6	118	29	1.8	56	4 N.	—
			Rescue	11.8	113	27	1.0	61	1 N.	—
			Chinook	9.6	115	25	1.0	58	2 N.	—
Necessary difference—1.6 bushels.										
GERALD D. MIDDLEMISS, BURNHAM										
1A	5	4	Thatcher	15.1	111	18	1.5	60	2 N.	I.
			Selkirk	16.3	109	21	7.3	60	2 N.	I.
			Lake	14.8	112	20	1.5	60	2 N.	I.
			Rescue	16.3	109	23	5.5	62	1 N.	—
			Chinook	17.9	112	19	1.8	62	1 N.	—
No significant grain yield difference between varieties.										
BILLY RADIUK, KELSTERN										
1A	5	5	Thatcher	11.5	100	27	4.0	53	No. 5	I.
			Selkirk	24.4	101	29	2.0	56	4 N.	—
			Lake	13.5	101	28	2.0	52	No. 6	I.
			Rescue	16.1	100	26	2.0	56	4 N.	—
			Chinook	14.6	100	26	2.0	56	4 N.	—
Necessary difference—1.5 bushels.										
P. WAYNE SHELDON, OLD WIVES										
1A	5	6	Thatcher	5.2	—	28	3.8	44	Fd.	—
			Selkirk	16.4	—	25	6.3	54	4 Sp.	—
			Lake	5.4	—	31	5.5	43	Fd.	—
			Rescue	8.0	—	29	7.8	50	6 Sp.	—
			Chinook	4.7	—	30	7.8	42	Fd.	—
Necessary difference—1.3 bushels.										
ROBERT C. ARISS, CODERRE										
1A	5	6	Thatcher	6.9	—	—	7.0	42	Fd.	—
			Selkirk	25.2	—	—	1.0	56	No. 5	Spr.
			Lake	10.0	—	—	1.0	46	Fd.	—
			Rescue	8.6	—	—	1.0	52	No. 6	Spr.
			Chinook	8.5	—	—	1.0	44	Fd.	—
Necessary difference—1.3 bushels.										
LORENCE I. PETERSON, PARKBEG										
1A	5	7	Thatcher	10.3	98	28	3.5	51	5 Sp.	—
			Selkirk	16.9	100	27	1.5	59	3 N.	I.
			Lake	9.9	99	27	5.0	50	6 Sp.	—
			Rescue	12.7	99	27	2.0	56	4 N.	—
			Chinook	9.8	99	29	2.8	52	5 Sp.	—
Necessary difference—1.8 bushels.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
1A	5	9	Gordon D. Gleim, Uren.							
1A	5	9	Ronald N. McInnis, Aquadell.							

WHEAT POOL DISTRICT 6

THOMAS A. LEWIS, LEWVAN										
2E	6	1	Thatcher	5.8	107	27	2.0	52	5 Sp.	—
			Selkirk	12.7	108	28	2.0	60	2 N	I.
			Lake	9.8	108	36	2.0	56	4 N	—
			Lee	8.2	107	26	2.0	57	4 N.	—
			W-120	13.8	108	28	2.0	60	*	
Necessary difference—1.3 bushels.										

Wheat Pool District 6—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
PETER G. WARNKE, SEDLEY										
2E	6	2	Thatcher	5.9	106	28	4.5	45	Fd.	—
			Selkirk	21.9	105	30	3.8	52	No. 6	I.
			Lake	10.2	107	26	2.0	49	Fd.	G.
			Lee	14.1	111	32	5.0	52	No. 6	I.
			W-120	24.6	109	31	3.0	56	*	
Necessary difference—3.4 bushels.										
WAYNE O'BYRNE, WILCOX										
2E	6	3	Thatcher	6.2	—	—	5.0	48	Fd.	—
			Selkirk	17.8	—	—	2.0	58	3 N.	I.
			Lake	8.7	—	—	5.0	53	No. 6	G., I.
			Lee	11.3	—	—	2.0	54	No. 6	G., I.
			W-120	20.3	—	—	4.0	60	*	
Necessary difference—1.5 bushels.										
TONY R. THEAKER, WILCOX										
2E	6	3	Thatcher	7.4	108	31	8.0	46	Fd.	—
			Selkirk	23.1	113	33	3.0	55	4 Sp.	—
			Lake	13.0	108	34	5.0	50	Fd.	—
			Lee	14.4	112	32	4.0	52	No. 6	I.
			W-120	29.8	120	33	2.0	56	*	
Necessary difference—1.1 bushels.										
WILFRED R. G. FILAZEK, SPRING VALLEY										
1A	6	4	Thatcher	8.7	105	30	9.0	49	6 Sp.	—
			Selkirk	25.5	105	30	5.0	58	3 N.	G.
			Lake	9.7	108	30	7.5	51	No. 6	G.
			Rescue	12.8	105	32	2.0	54	4 Sp.	—
			Chinook	10.4	105	30	5.5	51	5 Sp.	—
Necessary difference—1.8 bushels.										
KENNETH F. McKENZIE, BELBECK										
2E	6	5	Thatcher	6.0	—	30	5.0	45	Fd.	—
			Selkirk	19.6	—	30	9.0	58	3 N.	I.
			Lake	10.4	—	32	8.0	50	Fd.	I.
			Lee	11.4	—	30	7.0	53	No. 5	I.
			W-120	22.9	—	30	8.0	60	*	
Necessary difference—2.8 bushels.										
W. EARL PERKIN, ROULEAU										
2E	6	6	Thatcher	5.9	—	—	9.0	42	Fd.	—
			Selkirk	20.4	—	—	5.0	56	4 N.	—
			Lake	7.3	—	—	7.0	44	Fd.	—
			Lee	13.3	—	—	6.0	50	Fd.	I.
			W-120	20.1	—	—	2.0	61	*	
Necessary difference—2.5 bushels.										
JACK W. MERIAM, PENSE										
2E	6	6	Thatcher	7.2	109	27	7.0	45	Fd.	—
			Selkirk	11.3	110	32	3.0	53	No. 5	I.
			Lake	8.2	114	25	5.0	48	Fd.	—
			Lee	8.9	114	28	4.0	45	Fd.	—
			W-120	14.5	110	30	2.0	57	*	
Necessary difference—1.9 bushels.										
G. EDWIN BEATTY, ADAMS										
2E	6	7	Thatcher	3.0	—	—	—	41	Fd.	—
			Selkirk	10.8	—	—	—	55	No. 5	G.
			Lake	3.4	—	—	—	42	Fd.	—
			Lee	4.8	—	—	—	44	Fd.	—
			W-120	12.1	—	—	—	57	*	
Necessary difference—0.8 bushels.										
CAMERON C. & GORDON W. HART, REGINA										
2E	6	7	Thatcher	3.9	—	20	—	41	Fd.	—
			Selkirk	19.7	—	24	—	53	No. 5	F.
			Lake	6.6	—	26	—	42	Fd.	—
			Lee	7.9	—	22	—	45	Fd.	—
			W-120	10.9	—	28	—	56	*	
Necessary difference—1.1 bushels.										

* W-120 wheat has proved lower in milling and baking quality than Thatcher, so it cannot be graded under the usual Canadian standards.

WHEAT POOL DISTRICT 7

JOHN M. JENSEN, MARYFIELD										
3A	7	1	Thatcher	13.2	105	41	7.0	50	Fd.	I.
			Selkirk	34.7	107	43	4.0	59	4 N.	I.
			Lake	15.1	110	42	2.0	54	No. 5	I.
			Lee	29.4	108	43	6.0	58	No. 5	I., G.
			W-120	54.9	115	44	4.0	63	*	
Necessary difference—2.2 bushels.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
S. DAVID KINASH, MOOSOMIN										
3B	7	2	Thatcher	4.6	106	37	5.0	54	No. 5	I.
			Selkirk	9.9	105	41	1.0	61	3 N.	I.
			Lake	6.7	110	39	4.0	59	3 N.	I.
			Lee	10.2	107	41	1.0	60	3 N.	I.
			W-120	9.3	108	41	1.0	61	*	
Test damaged—Yields not included in zone summary.										
MELBOURNE C. KING, LANGBANK										
3A	7	3	Thatcher	7.6	—	—	5.0	48	Fd.	—
			Selkirk	22.2	—	—	—	57	No. 6	F., E.
			Lake	12.8	—	—	5.0	51	Fd.	F., E.
			Lee	21.8	—	—	1.0	54	Fd.	F.
			W-120	37.3	—	—	1.0	54	*	
Necessary difference—4.2 bushels.										
DONNA M. FERCH, KIPLING										
3A	7	4	Thatcher	3.3	129	27	5.0	47	Fd.	—
			Selkirk	14.2	128	28	5.0	54	No. 5	F.
			Lake	6.2	128	25	5.0	48	Fd.	—
			Lee	9.7	126	27	5.0	50	Fd.	F.
			W-120	13.4	127	26	5.0	54	*	
Test damaged by flooding—Yields not included in zone summary.										
ARTHUR C. DICKIE, HANDSWORTH										
2A	7	5	Thatcher	9.7	104	36	6.8	51	No. 6	I.
			Selkirk	24.9	107	36	7.5	57	4 N.	I.
			Lake	12.4	112	40	4.5	55	No. 5	I.
			Lee	19.9	107	36	6.0	57	4 N.	I.
			W-120	26.9	111	38	3.0	60	*	
Necessary difference—3.6. bushels.										
DAVID J. INNES, OSAGE										
2A	7	5	Thatcher	12.6	105	28	6.3	53	No. 5	I.
			Selkirk	27.1	106	31	4.0	58	2 N.	—
			Lake	13.6	108	33	2.8	54	No. 5	I.
			Lee	19.0	106	29	4.0	56	4 N.	—
			W-120	26.9	108	31	2.3	61	*	
Necessary difference—3.0 bushels.										
LOUIS CARON, MONTMARTRE										
2A	7	6	Thatcher	7.7	116	34	6.0	51	No. 6	I., G.
			Selkirk	20.0	119	37	3.0	57	No. 4	I., G.
			Lake	10.1	120	37	3.5	57	No. 5	I., G.
			Lee	18.7	115	35	4.8	57	No. 5	I., G.
			W-120	24.6	122	38	3.0	61	*	
Necessary difference—2.9 bushels.										
BILLIE LARTER, BROADVIEW										
3A	7	7	Thatcher	16.4	—	30	9.0	54	4 Sp.	E.
			Selkirk	40.5	—	35	5.0	61	2 N.	I., E.
			Lake	21.6	—	36	8.0	58	3 N.	I.
			Lee	33.1	—	30	4.0	59	4 N.	G., F.
			W-120	51.9	—	37	1.0	61	*	
Necessary difference—4.8 bushels.										
RAE M. THOMPSON, ROCANVILLE										
3C	7	8	Thatcher	10.2	—	42	2.0	53	No. 5	—
			Selkirk	25.2	—	40	1.5	60	3 N.	I.
			Lake	11.5	—	44	2.8	57	3 N.	I.
			Lee	18.8	—	36	5.0	56	4 N.	—
			W-120	24.7	—	42	2.0	59	*	
Necessary difference—2.0 bushels.										
CARLYLE D. MAGNUSSON, TANTALLON										
3C	7	9	Thatcher	3.7	104	36	7.0	51	No. 6	I.
			Selkirk	16.3	108	37	1.0	60	4 N.	I., G.
			Lake	6.6	108	38	7.0	52	No. 6	I
			Lee	9.9	106	38	2.0	59	3 N.	I.
			W-120	14.0	110	38	1.0	62	*	
Test damaged by cattle—Yields not included in zone summary.										
MORGAN N. ANDERSON, ATWATER										
3C	7	10	Thatcher	12.8	101	32	7.0	52	No. 6	I.
			Selkirk	33.1	109	33	2.0	57	No. 5	F.
			Lake	12.6	116	32	8.0	54	No. 6	F.
			Lee	29.2	109	31	3.0	56	No. 6	F.
			W-120	47.6	118	38	2.0	60	*	
Necessary difference—3.1 bushels.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			GORDON RAMSTEAD, DUBUC							
3C	7	11	Thatcher	6.6	112	36	2.3	49	Fd.	F.
			Selkirk	13.1	115	36	2.3	55	No. 5	F.
			Lake	4.8	117	36	2.5	49	Fd.	F.
			Lee	10.3	115	37	2.8	50	Fd.	F.
			W-120	20.5	115	39	2.0	58	*	
Necessary difference—5.6 bushels.										

* W-120 wheat has proved lower in milling and baking quality than Thatcher so it cannot be graded under the usual Canadian standards.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3A 7 6 Garnett E. Smalley, Windthorst.

WHEAT POOL DISTRICT 8

			WILLIAM MALAINY, WROXTON							
3B	8	1	Thatcher	8.2	—	24	—	58	3 N.	I.
			Selkirk	19.1	—	24	—	62	2 N.	I.
			Lake	11.6	—	30	—	59	2 N.	—
			Lee	12.3	—	32	—	62	2 N.	I.
			W-120	16.4	—	30	—	63	*	
Necessary difference—1.1 bushels.										
			PATRICIA A. KELLY, SALTCOATS							
3B	8	2	Thatcher	6.6	—	—	—	50	Fd.	F.
			Selkirk	13.8	—	—	—	58	4 N.	F.
			Lake	8.1	—	—	—	52	No. 6	F.
			Lee	10.9	—	—	—	54	No. 5	F.
			W-120	19.1	—	—	—	60	*	
Necessary difference—2.1 bushels.										
			WILLIAM F. OLYNYK, CANA							
3C	8	3	Thatcher	5.5	105	28	5.5	51	Fd.	F.
			Selkirk	16.5	101	35	2.5	57	No. 5	F.
			Lake	11.2	104	31	3.3	55	No. 6	F.
			Lee	12.7	103	30	3.3	56	No. 6	F.
			W-120	17.0	104	34	2.3	58	*	
Necessary difference—2.3 bushels.										
			GERALD R. KOWAL, WILLOWBROOK							
3C	8	4	Thatcher	8.6	—	36	—	50	Fd.	F.
			Selkirk	26.2	—	37	—	54	No. 6	F.
			Lake	7.6	—	39	—	49	Fd..	F.
			Lee	15.1	—	36	—	50	Fd.	F
			W-120	25.2	—	44	—	53	*	
Necessary difference—1.6 bushels.										
			FRANCIS E. PENNISTON JR., TOGO							
3B	8	5	Thatcher	13.0	110	29	5.0	49	Fd.	F.
			Selkirk	33.6	110	29	2.0	55	No. 6	F.
			Lake	15.7	113	29	3.0	49	Fd.	F.
			Lee	19.9	113	28	3.0	50	Fd.	F.
			W-120	36.1	110	31	1.0	57	*	
Necessary difference—2.1 bushels.										
			BERNICE N. FULLAWKA, TADMORE							
3B	8	6	Thatcher	11.0	98	33	8.0	49	Fd.	F.
			Selkirk	22.1	100	33	8.0	55	4 N.	F.
			Lake	13.7	103	35	8.0	51	Fd.	F.
			Lee	18.4	102	34	7.5	54	No. 5	F.
			W-120	31.6	110	39	5.5	58	*	
Necessary difference—2.4 bushels.										
			WAYNE G. LOWE, HINCHLIFFE							
3B	8	8	Thatcher	5.6	—	—	—	51	No. 6	F.
			Selkirk	24.7	—	—	—	56	No. 6	F.
			Lake	10.4	—	—	—	53	Fd.	G., F.
			Lee	15.1	—	—	—	57	No. 6	F.
			W-120	21.1	—	—	—	56	*	
Necessary difference—4.5 bushels.										
			GERALD S. ANAKA, STENEN							
3B	8	9	Thatcher	16.1	107	34	2.0	52	No. 6	F.
			Selkirk	43.8	112	37	2.0	55	No. 5	F.
			Lake	27.5	112	39	1.0	48	Fd.	—
			Lee	38.5	112	34	3.3	54	No. 5	F.
			W-120	51.9	112	39	2.5	53	*	
Necessary difference—3.7 bushels.										

Wheat Pool District 8—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			ALLAN A. LISTER, PELLY							
3B	8	10	Thatcher	7.1	—	—	—	52	Fd.	F.
			Selkirk	11.0	—	—	—	54	No. 6	—
			Lake	7.2	—	—	—	52	No. 6	F.
			Lee	12.7	—	—	—	54	No. 6	F.
			W-120	11.2	—	—	—	57	*	
Necessary difference—2.5 bushels.										
			DOUGLAS G. THRUSSELL, VEILLARDVILLE							
3F	8	11	Thatcher	1.4	—	26	5.0	38	Fd.	—
			Selkirk	4.6	—	30	2.8	40	Fd.	—
			Lake	1.3	—	29	4.3	35	Fd.	—
			Lee	2.0	—	24	5.0	38	Fd.	—
			W-120	2.9	—	31	1.5	38	*	
Test damaged by frost—Yields not included in zone summary.										

* W-120 Wheat has proved lower in milling and baking quality than Thatcher so it cannot be graded under the usual Canadian Standards.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3C	8	7	Patrick Kresak, Rama.							

WHEAT POOL DISTRICT 9

			EDWARD A. CLARK, KELLIHER							
3C	9	1	Thatcher	17.0	—	31	7.8	51	Fd.	F.
			Selkirk	37.7	—	36	2.0	56	No. 5	F.
			Lake	19.1	—	32	7.8	54	No. 5	F.
			Lee	27.6	—	35	2.5	56	No. 5	F.
			W-120	37.1	—	37	1.3	57	*	
Necessary difference—3.0 bushels.										
			GERALD TKATCH, JASMIN							
3C	9	1	Thatcher	2.7	—	31	5.0	45	Fd.	—
			Selkirk	10.8	—	32	3.8	52	No. 6	F.
			Lake	3.4	—	36	4.5	48	Fd.	—
			Lee	8.7	—	33	6.5	52	No. 6	F.
			W-120	8.9	—	39	3.8	55	*	
Necessary difference—2.1 bushels.										
			DONALD F. SCHUSTER, MARKINCH							
2B	9	2	Thatcher	11.1	110	37	9.0	48	Fd.	—
			Selkirk	30.3	120	34	8.0	54	No. 5	F.
			Lake	17.3	110	36	9.0	53	No. 5	F.
			Rescue	13.2	110	37	7.0	50	Fd.	F.
			Chinook	14.6	110	35	7.0	50	Fd.	F.
Necessary difference—2.8 bushels.										
			RAYMOND COCKWILL, KELLIHER							
3C	9	3	Thatcher	10.8	—	31	3.0	50	Fd.	F.
			Selkirk	24.1	—	33	1.0	55	No. 5	F.
			Lake	15.6	—	30	2.0	55	No. 5	F.
			Lee	21.6	—	27	2.0	55	No. 5	F.
			W-120	25.8	—	31	1.0	60	*	
Necessary difference—4.6 bushels.										
			DOROTHY I. RHEAD, LESTOCK							
3C	9	3	Thatcher	8.1	107	34	4.5	54	4 Sp.	—
			Selkirk	18.5	107	35	3.0	59	3 N.	F.
			Lake	11.8	107	38	3.3	57	4 N.	G., F.
			Lee	12.3	107	34	3.3	59	3 N.	I.
			W-120	18.3	109	36	2.0	62	*	
Necessary difference—2.1 bushels.										
			TERRY BATTY, SILTON							
2B	9	4	Thatcher	17.1	95	35	7.0	50	Fd.	I.
			Selkirk	46.4	102	36	2.0	56	4 N.	—
			Lake	22.4	97	35	8.0	51	No. 6	I.
			Rescue	20.4	97	33	6.0	52	No. 6	I.
			Chinook	19.7	94	31	3.0	51	No. 6	I.
Necessary difference—1.8 bushels.										
			GORDON G. GWILLIM, DUVAL							
2B	9	5	Thatcher	9.2	121	37	7.5	48	Fd.	—
			Selkirk	29.6	123	35	4.0	58	3 N.	I.
			Lake	11.7	121	36	6.8	50	Fd.	I.
			Rescue	17.1	122	38	5.3	52	5 Sp.	—
			Chinook	12.2	121	37	6.0	49	Fd.	I.
Necessary difference—2.9 bushels.										

Wheat Pool District 9—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LYLE J. ROCKEL, LANIGAN										
2B	9	6	Thatcher	11.1	121	37	9.0	53	No. 5	F.
			Selkirk	25.9	122	37	6.3	57	4 N.	F.
			Lake	14.7	123	38	9.0	54	No. 5	F.
			Rescue	10.6	122	38	9.0	52	No. 6	F.
			Chinook	9.8	122	35	9.0	52	No. 6	F.
Necessary difference—2.1 bushels.										
T. ROBERT HALSTEAD, NOKOMIS										
2B	9	6	Thatcher	8.5	114	38	9.0	50	6 Sp.	—
			Selkirk	23.2	119	39	6.5	56	4 N.	—
			Lake	12.2	115	40	8.3	53	4 Sp.	—
			Rescue	7.8	115	40	8.0	50	6 Sp.	—
			Chinook	9.3	115	40	7.3	51	5 Sp.	—
Necessary difference—1.4 bushels.										
REINHOLD R. WODTKE, PUNNICHY										
3C	9	7	Thatcher	16.5	116	28	2.0	52	No. 6	F.
			Selkirk	35.8	115	42	9.0	58	No. 5	F.
			Lake	22.6	119	41	7.7	55	No. 6	F.
			Lee	27.9	119	36	8.3	54	Fd.	F.
			W-120	35.5	122	44	9.0	60	*	
Necessary difference—5.6 bushels.										
DONALD P. SMITH, DAFOE										
2B	9	8	Thatcher	6.3	—	18	4.3	50	Fd.	F.
			Selkirk	17.1	—	24	2.5	56	4 N.	—
			Lake	8.7	—	24	2.8	54	No. 5	F.
			Rescue	7.4	—	22	2.8	52	5 Sp.	—
			Chinook	8.1	—	22	3.0	53	4 Sp.	—
Necessary difference—1.9 bushels.										
ROBERT N. LEA, FOAM LAKE										
3C	9	9	Thatcher	19.7	—	32	3.0	48	Fd.	—
			Selkirk	32.6	—	38	1.0	53	No. 6	F.
			Lake	18.6	—	36	5.0	52	No. 6	F.
			Lee	33.0	—	36	2.0	52	No. 6	F.
			W-120	39.9	—	36	1.0	56	*	
Necessary difference—2.0 bushels.										
DUNCAN E. GEORGE, ELFROS										
3C	9	10	Thatcher	6.6	—	29	6.0	49	Fd.	F.
			Selkirk	16.4	—	32	2.0	55	No. 5	F.
			Lake	9.7	—	28	4.0	55	No. 5	F.
			Lee	10.5	—	27	2.0	54	No. 5	F.
			W-120	16.2	—	30	2.8	57	*	
Necessary difference—0.8 bushels.										

* W-120 wheat has proved lower in milling and baking quality than Thatcher, so it cannot be graded under the usual Canadian standards.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3C	9	9	Thomas Cooper, West Bend.

WHEAT POOL DISTRICT 10

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
CLARENCE AND MARION METZ, HOLDFAST										
2B	10	1	Thatcher	5.3	—	33	6.0	42	Fd.	—
			Selkirk	23.4	—	34	3.3	53	No. 5	—
			Lake	7.5	—	34	4.3	43	Fd.	—
			Rescue	7.8	—	34	4.5	48	Fd.	—
			Chinook	7.0	—	33	3.5	44	Fd.	—
Necessary difference—1.3.bushels.										
RICHARD L. ACKERMAN, CHAMBERLAIN										
2B	10	1	Thatcher	5.6	—	—	—	48	Fd.	—
			Selkirk	18.4	—	—	—	55	No. 5	—
			Lake	6.4	—	—	—	46	Fd.	—
			Rescue	6.8	—	—	—	48	Fd.	—
			Chinook	8.1	—	—	—	48	Fd.	—
Necessary difference—2.6 bushels.										
SHIRLEY P. LANE, PENZANCE										
2B	10	1	Thatcher	6.0	106	33	8.3	45	Fd.	—
			Selkirk	23.7	108	34	1.0	58	3 N.	I.
			Lake	7.4	107	34	8.0	49	6 Sp.	—
			Rescue	9.4	107	35	4.8	52	5 Sp.	—
			Chinook	9.7	108	34	3.8	49	6 Sp.	—
Necessary difference—2.3 bushels.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
FRANKLYN A. STRAIN, LAWSON										
1A	10	2	Thatcher	7.6	—	—	8.3	44	Fd.	—
			Selkirk	15.2	—	—	3.3	56	4 N.	—
			Lake	8.1	—	—	7.8	46	Fd.	—
			Rescue	7.1	—	—	3.8	51	5 Sp.	—
			Chinook	6.3	—	—	5.0	46	Fd.	—
Necessary difference—2.8 bushels.										
LORNE S. STROEDER, BEECHY										
1A	10	3	Thatcher	17.1	—	25	6.8	56	4 N.	—
			Selkirk	24.7	—	25	8.0	58	3 N.	I.
			Lake	18.2	—	24	5.5	57	3 N.	—
			Rescue	16.2	—	24	6.5	57	3 N.	—
			Chinook	15.2	—	25	7.3	54	4 Sp.	—
Necessary difference—3.3 bushels.										
LLOYD SCHURY, BEECHY										
1A	10	3	Thatcher	6.0	—	—	—	49	6 Sp.	—
			Selkirk	12.7	—	—	—	56	4 N.	—
			Lake	4.6	—	—	—	50	6 Sp.	—
			Rescue	9.4	—	—	—	55	4 Sp.	—
			Chinook	10.7	—	—	—	55	4 Sp.	—
Necessary difference—2.1 bushels.										
DONALD S. McCONNELL, WISETON										
1A	10	4	Thatcher	13.1	103	30	—	54	4 Sp.	—
			Selkirk	24.1	108	32	—	58	3 N.	I.
			Lake	15.8	108	34	—	54	4 Sp.	—
			Rescue	18.1	104	33	—	56	4 N.	—
			Chinook	13.4	104	33	—	54	4 Sp.	—
Necessary difference—1.2 bushels.										
TERRY S. VEEMAN, TICHFIELD										
1A	10	5	Thatcher	10.2	—	—	—	49	6 Sp.	—
			Selkirk	23.4	—	—	—	56	4 N.	—
			Lake	12.1	—	—	—	52	5 Sp.	—
			Rescue	12.0	—	—	—	52	5 Sp.	—
			Chinook	9.1	—	—	—	47	Fd.	—
Necessary difference—1.6 bushels.										
GREGORY J. M. CLARK, BOUNTY										
2B	10	5	Thatcher	5.6	—	24	—	47	Fd.	—
			Selkirk	20.0	—	27	—	55	No. 5	I.
			Lake	8.5	—	30	—	52	No. 6	I.
			Rescue	8.5	—	24	—	53	No. 5	I.
			Chinook	7.4	—	28	—	51	5 Sp.	—
Necessary difference—2.8 bushels.										
JOHN W. WILLIAMS, ELBOW										
2B	10	6	Thatcher	8.7	108	25	8.0	50	Fd.	I.
			Selkirk	22.5	115	31	5.0	55	No. 5	I.
			Lake	11.1	118	28	7.0	51	No. 6	I.
			Rescue	9.9	110	27	7.0	54	No. 5	I.
			Chinook	10.4	110	30	7.0	52	No. 6	I.
Necessary difference—1.5 bushels.										
DALE W. GIBBON, DAVIDSON										
2B	10	7	Thatcher	1.6	—	—	—	38	Fd.	—
			Selkirk	9.3	—	—	—	49	Fd.	F.
			Lake	4.0	—	—	—	44	Fd.	—
			Rescue	2.1	—	—	—	42	Fd.	—
			Chinook	2.3	—	—	—	37	Fd.	—
Test damaged by hail—Yields not included in zone summary.										
DOLORES C. ANDERSON, STALWART										
2B	10	8	Thatcher	6.5	—	—	—	49	Fd.	I.
			Selkirk	19.2	—	—	—	58	3 N.	I.
			Lake	9.8	—	—	—	52	No. 6	I.
			Rescue	5.0	—	—	—	45	Fd.	—
			Chinook	4.9	—	—	—	45	Fd.	—
Necessary difference—1.7 bushels.										
E. DUANE CLIMENHAGA, DELISLE										
2B	10	10	Thatcher	5.8	—	28	9.0	44	Fd.	—
			Selkirk	13.7	—	31	5.0	51	No. 6	G.
			Lake	7.9	—	29	7.0	45	Fd.	—
			Rescue	5.8	—	28	9.0	51	No. 6	G.
			Chinook	4.8	—	26	9.0	48	Fd.	—
Test damaged by wireworms—Yields not included in zone summary.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2B	10	2	Phil Dodds, Tugaske.							
2B	10	8	Ervin Gross, Watrous.							
2B	10	9	Paul Didur, Farrerdale.							

WHEAT POOL DISTRICT 11

EDWYN VERMETTE, ELROSE

1D	11	1	Thatcher	14.5	118	34	8.0	54	4 Sp.	—
			Selkirk	26.2	121	33	7.0	59	3 N.	I.
			Lake	16.8	127	32	8.0	56	4 N.	—
			Rescue	20.7	119	34	7.0	56	4 N.	—
			Chinook	18.3	118	34	7.0	57	3 N.	—
Necessary difference—2.3 bushels.										

KENNETH L. HILLACRE, GLIDDEN

1D	11	3	Thatcher	18.2	—	—	—	53	No .5	I.
			Selkirk	24.8	—	—	—	57	3 N.	—
			Lake	15.5	—	—	—	53	No. 5	I.
			Rescue	20.4	—	—	—	57	3 N.	—
			Chinook	17.4	—	—	—	57	3 N.	—
Necessary difference—3.3 bushels.										

FRED D. COVENTRY, MANTARIO

1D	11	4	Thatcher	8.8	—	—	—	56	4 N.	—
			Selkirk	10.5	—	—	—	60	3 N.	I.
			Lake	10.2	—	—	—	57	3 N.	—
			Rescue	8.6	—	—	—	60	1 N.	—
			Chinook	10.5	—	—	—	59	2 N.	—
No significant grain yield difference between varieties.										

GRANT M. HENRY, LAPORTE

1D	11	4	Thatcher	30.3	104	29	1.8	61	1 N.	—
			Selkirk	35.8	107	29	1.0	61	2 N.	I.
			Lake	30.0	105	30	1.8	60	2 N.	I.
			Rescue	31.1	102	30	2.0	63	1 N.	—
			Chinook	33.1	102	30	1.5	64	1 N.	—
Necessary difference—2.5 bushels.										

WILLIAM G. RICHARDSON, KINDERSLEY

1D	11	6	Thatcher	26.2	—	32	2.8	56	4 N.	—
			Selkirk	35.4	—	31	3.0	59	2 N.	—
			Lake	28.0	—	33	2.0	56	4 N.	—
			Rescue	28.4	—	32	5.5	59	2 N.	—
			Chinook	26.4	—	32	3.3	61	2 N.	I.
Necessary difference—2.2 bushels.										

ROBERT L. NICCOLLS, ROSETOWN

2B	11	7	Thatcher	11.5	—	—	—	52	5 Sp.	—
			Selkirk	25.8	—	—	—	57	3 N.	—
			Lake	14.6	—	—	—	54	No. 5	I.
			Rescue	16.3	—	—	—	55	4 Sp.	—
			Chinook	11.8	—	—	—	53	4 Sp.	—
Necessary difference—2.6 bushels.										

DONALD S. COLE, ROSETOWN

1D	11	8	Thatcher	12.9	—	—	—	53	4 Sp.	—
			Selkirk	20.9	—	—	—	56	4 N.	—
			Lake	14.7	—	—	—	56	4 N.	—
			Rescue	12.2	—	—	—	51	5 Sp.	—
			Chinook	13.8	—	—	—	52	5 Sp.	—
Necessary difference—3.4 bushels.										

RONALD G. FOX, RUTHILDA

2D	11	8	Thatcher	11.3	—	—	—	55	4 Sp.	—
			Selkirk	19.8	—	—	—	58	2 N.	—
			Lake	15.6	—	—	—	57	3 N.	—
			Rescue	16.7	—	—	—	57	3 N.	—
			Chinook	14.3	—	—	—	56	4 N.	—
Necessary difference—1.7 bushels.										

GLEN H. ELLIOTT, BEAUFIELD

1D	11	9	Thatcher	16.0	—	—	—	58	2 N.	—
			Selkirk	17.2	—	—	—	60	2 N.	I.
			Lake	15.6	—	—	—	59	2 N.	—
			Rescue	20.8	—	—	—	62	1 N.	—
			Chinook	19.6	—	—	—	62	1 N.	—
Necessary difference—2.5 bushels.										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes			
1D	11	10	William Warrington, Loverna.

WHEAT POOL DISTRICT 12

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROBERT H. McGOWAN, BIGGAR										
2D	12	1	Thatcher	17.0	—	—	—	53	4 Sp.	—
			Selkirk	28.0	—	—	—	58	3 N.	I.
			Lake	18.6	—	—	—	55	4 Sp.	—
			Rescue	17.1	—	—	—	56	4 N.	—
			Chinook	17.1	—	—	—	55	4 Sp.	—
Necessary difference—2.3 bushels.										
IMELDA L. BURGART, TRAYNOR										
2D	12	2	Thatcher	7.8	—	—	—	53	No. 5	F.
			Selkirk	14.0	—	—	—	57	4 N.	F.
			Lake	8.0	—	—	—	52	No. 6	F.
			Rescue	8.6	—	—	—	52	No. 6	F.
			Chinook	6.8	—	—	—	49	Fd.	F.
Necessary difference—1.2 bushels.										
DANIEL L. TONER, KELFIELD										
2D	12	3	Thatcher	12.3	111	27	—	52	No. 6	I.
			Selkirk	19.6	111	27	—	57	4 N.	G., I.
			Lake	14.3	110	29	—	54	No. 5	I.
			Rescue	14.7	111	28	—	58	3 N.	I.
			Chinook	14.7	111	29	—	58	3 N.	I.
Necessary difference—1.9 bushels.										
EDWARD J. REITER, LUSELAND										
2D	12	4	Thatcher	6.6	94	28	1.0	51	No. 6	F.
			Selkirk	13.8	98	24	2.0	57	No. 5	F.
			Lake	8.8	102	32	4.0	50	Fd.	F.
			Rescue	9.7	94	30	8.0	56	No. 5	F.
			Chinook	8.8	94	30	7.0	56	No. 5	F.
Necessary difference—1.7 bushels.										
JOAN M. WARNOCK, LUSELAND										
2D	12	5	Thatcher	8.4	—	—	—	53	No. 5	F.
			Selkirk	14.4	—	—	—	56	No. 4	—
			Lake	9.2	—	—	—	53	No. 5	F.
			Rescue	8.6	—	—	—	52	No. 6	I.
			Chinook	7.1	—	—	—	52	5 Sp.	—
Necessary difference—1.2 bushels.										
W. LAWRENCE FEIL, CACTUS LAKE										
2D	12	6	Thatcher	11.8	118	23	1.3	58	3 N.	I.
			Selkirk	15.6	119	22	1.0	59	3 N.	I.
			Lake	15.6	119	25	1.3	58	3 N.	I.
			Rescue	12.1	117	23	1.8	60	2 N.	I.
			Chinook	12.5	116	24	1.3	60	2 N.	I.
Necessary difference—1.2 bushels.										
JAMES A. WALLACE, UNITY										
2D	12	7	Thatcher	7.6	—	19	3.0	54	No. 5	F.
			Selkirk	13.9	—	19	2.3	57	No. 5	F.
			Lake	10.4	—	21	2.0	56	No. 5	F.
			Rescue	8.6	—	19	2.8	58	4 N.	F.
			Chinook	7.8	—	18	2.5	54	No. 5	F.
No significant grain yield difference between varieties.										
RAYMOND C. PETOVELLO, BALDWINTON										
3E	12	8	Thatcher	18.7	—	—	—	54	No. 5	F.
			Selkirk	27.5	—	—	—	56	4 N.	F.
			Lake	22.1	—	—	—	56	4 N.	F.
			Lee	33.0	—	—	—	57	4 N.	F.
			W-120	34.0	—	—	—	60	*	
Necessary difference—5.6 bushels.										
D. KEITH BULLERWELL, CUTKNIFE										
3E	12	9	Thatcher	6.5	131	26	7.5	48	Fd.	—
			Selkirk	10.6	132	28	4.8	51	No. 6	F.
			Lake	8.2	130	31	7.0	52	No. 6	F.
			Lee	9.4	132	26	3.0	55	No. 6	F.
			W-120	12.1	132	29	2.8	57	*	
Necessary difference—1.0 bushels.										
GUY R. LACOURSIERE, HIGHGATE										
3G	12	10	Thatcher	5.2	—	—	—	45	Fd.	—
			Selkirk	15.2	—	—	—	52	No. 6	F.
			Lake	11.5	—	—	—	51	No. 6	F.
			Lee	14.3	—	—	—	51	No. 6	F.
			W-120	20.4	—	—	—	60	*	
Necessary difference—2.8 bushels.										

* W-120 wheat has proved lower in milling and baking quality than Thatcher, so it cannot be graded under the usual Canadian standards.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

2D	12	6	Ted Leibel, Denzil.

WHEAT POOL DISTRICT 13

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
JOHN A. THOMPSON, LEROY										
3C	13	1	Thatcher	14.7	—	—	8.0	51	No. 6	F.
			Selkirk	32.1	—	—	1.0	57	No. 5	F.
			Lake	16.0	—	—	9.0	55	No. 5	F.
			Lee	20.9	—	—	5.0	54	No. 6	F.
			W-120	32.8	—	—	2.0	58	*	
Samples bulked—Yields not included in zone summary.										
WILBERT S. B. ANDERSON, YOUNG										
2B	13	2	Thatcher	8.3	—	—	—	52	No. 6	I.
			Selkirk	21.1	—	—	—	56	4 N.	—
			Lake	11.4	—	—	—	53	No. 5	I.
			Rescue	9.3	—	—	—	51	No. 6	I.
			Chinook	6.9	—	—	—	47	Fd.	—
Necessary difference—1.2 bushels.										
ALEX G. CAMPBELL, ALLAN										
2B	13	3	Thatcher	10.6	—	40	—	50	Fd.	F.
			Selkirk	21.0	—	40	—	51	No. 6	F.
			Lake	11.7	—	40	—	53	No. 6	F.
			Rescue	8.7	—	40	—	46	Fd.	—
			Chinook	11.0	—	40	—	47	Fd.	—
Necessary difference—2.4 bushels.										
VICTOR SADOWICK, COLONSAY										
2B	13	4	Thatcher	11.2	121	42	4.0	49	Fd.	F.
			Selkirk	27.1	121	40	1.0	54	No. 5	F.
			Lake	9.2	125	38	4.0	55	Fd.	F.
			Rescue	5.1	122	41	6.0	45	Fd.	—
			Chinook	8.5	120	42	5.0	48	Fd.	—
Test badly damaged by frost—Yields not included in zone summary.										
JOHN C. STAGG, KINLEY										
2B	13	7	Thatcher	5.6	—	—	—	50	6 Sp.	—
			Selkirk	11.1	—	—	—	56	4 N.	—
			Lake	7.6	—	—	—	53	No. 5	I.
			Rescue	7.9	—	—	—	54	4 Sp.	—
			Chinook	6.0	—	—	—	50	6 Sp.	—
Necessary difference—1.7 bushels.										
EDWARD REMARCHUK, CUDWORTH										
2B	13	9	Thatcher	16.2	—	—	—	52	No. 6	I.
			Selkirk	26.7	—	—	—	53	No. 5	I.
			Lake	21.5	—	—	—	49	Fd.	—
			Rescue	20.1	—	—	—	54	No. 5	I.
			Chinook	15.3	—	—	—	52	No. 6	I.
Necessary difference—3.9 bushels.										
ALVIN HESSDORFER, ST. BENEDICT										
3C	13	1	Thatcher	7.8	—	32	—	52	No. 5	—
			Selkirk	14.8	—	38	—	53	No. 5	F.
			Lake	8.5	—	35	—	51	No. 6	F.
			Lee	9.2	—	33	—	51	No. 6	F.
			W-120	14.6	—	36	—	54	*	
Necessary difference—1.9 bushels.										
RICHARD A. KIEDROWSKI, LAKE LENORE										
3C	13	11	Thatcher	6.8	—	36	7.0	52	Fd.	F.
			Selkirk	16.3	—	39	3.0	55	No. 6	F.
			Lake	4.5	—	41	5.0	50	Fd.	F.
			Lee	10.3	—	37	8.0	50	Fd.	F.
			W-120	15.0	—	42	2.0	53	*	
Necessary difference—1.7 bushels.										

* W-120 has proved lower in milling and baking quality than Thatcher, so it cannot be graded under the usual Canadian standards.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

2B	13	3	David J. Zerr, Allan.
2B	13	5	Paul Janzen, Osler.
3G	13	6	Keith W. Tarasoff, Langham.
2B	13	8	Rudolf, Dinter, Sutherland.

WHEAT POOL DISTRICT 14

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
WILLIAM E. THOMAS, LINTLAW										
3B	14	1	Thatcher	11.3	109	30	6.8	51	No. 6	F.
			Selkirk	24.3	109	30	5.5	55	No. 6	F.
			Lake	18.1	110	30	7.3	52	Fd.	G., F.
			Lee	19.0	111	30	7.0	52	No. 6	F.
			W-120	31.6	113	30	8.8	58	*	
Necessary difference—3.2 bushels.										

Wheat Pool District 14—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DUAINE R. PETERSON, WADENA										
3C	14	2	Thatcher	10.7	—	—	—	50	Fd.	F.
			Selkirk	29.9	—	—	—	57	4 N.	F.
			Lake	16.7	—	—	—	55	No. 5	F.
			Lee	20.6	—	—	—	55	No. 5	F.
			W-120	28.3	—	—	—	58	*	
Necessary difference—5.0 bushels.										
JOHN W. WIEBENSOHN, CLAIR										
3C	14	2	Thatcher	4.0	—	28	8.5	47	Fd.	—
			Selkirk	10.6	—	30	4.3	56	No. 6	F.
			Lake	7.6	—	32	4.0	55	No. 6	—
			Lee	7.1	—	26	5.5	54	No. 6	F.
			W-120	9.4	—	32	3.0	59	*	
Test damaged by cattle—Yields not included in zone summary.										
FAYE DAHL, DAHLTON										
4A	14	4	Thatcher	17.3	—	30	9.0	57	No. 6	F.
			Selkirk	32.5	—	36	9.0	56	No. 6	F.
			Lake	25.2	—	30	9.0	53	Fd.	F.
			Lee	21.7	—	30	9.0	57	No. 6	F.
			W-120	40.9	—	39	5.0	58	*	
Necessary difference—4.5 bushels.										
NORBERT SCHMOKER, PERIGORD										
3C	14	5	Thatcher	9.9	—	—	—	57	4 N.	F.
			Selkirk	12.9	—	—	—	61	4 N.	F.
			Lake	10.8	—	—	—	57	4 N.	F.
			Lee	12.1	—	—	—	59	4 N.	F.
			W-120	13.7	—	—	—	60	*	
Necessary difference—1.6 bushels.										
FLORIAN W. SLUGOSKI, PEESANE										
3F	14	7	Thatcher	16.3	—	41	6.0	50	Fd.	F.
			Selkirk	31.3	—	40	4.5	56	No. 5	F.
			Lake	22.4	—	46	3.8	54	No. 6	F.
			Lee	27.2	—	41	6.5	51	Fd.	F.
			W-120	36.5	—	47	4.3	56	*	
Necessary difference—5.6 bushels.										
G. TERRY FENNELL, MELFORT										
3D	14	8	Thatcher	13.9	127	37	5.0	50	Fd.	F.
			Selkirk	27.0	134	40	2.0	53	Fd.	F.
			Lake	12.0	133	44	2.8	48	Fd.	F.
			Lee	21.2	126	37	4.0	51	Fd.	F.
			W-120	18.9	128	40	2.5	55	*	
Necessary difference—2.2 bushels.										
ARNOLD LEISTER, CLASHMOOR										
3F	14	10	Thatcher	2.5	—	—	—	33	Fd.	—
			Selkirk	5.6	—	—	—	39	Fd.	—
			Lake	.9	—	—	—	(A)	Fd. (E)	—
			Lee	3.8	—	—	—	31	Fd.	—
			W-120	3.8	—	—	—	30	*	—
Test damaged—Yields not included in zone summary. (A)—Insufficient to calculate bushel weight. (B)—Estimated grade.										
ERIC D. THOMSON, CODETTE										
3F	14	11	Thatcher	21.1	—	35	4.0	58	3 N.	F.
			Selkirk	31.0	—	34	5.0	59	4 N.	F.
			Lake	24.6	—	40	3.0	59	4 N.	F.
			Lee	24.1	—	37	5.0	58	4 N.	F.
			W-120	31.2	—	41	1.0	58	*	
Necessary difference—2.7 bushels.										
BEVERLY J. BORSA, SMOKY BURN										
3F	14	11	Thatcher	26.4	107	39	2.0	56	No. 5	F.
			Selkirk	42.0	107	39	2.0	58	4 N.	F.
			Lake	29.6	111	45	2.0	55	No. 5	F.
			Lee	30.4	107	39	4.0	56	No. 5	F.
			W-120	45.6	111	46	1.0	55	*	
Necessary difference—2.7 bushels.										

* W-120 wheat has proved lower in milling and baking quality than Thatcher, so it cannot be graded under the usual Canadian standards.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

4A	14	3	D. Ernest McAllister, Silver Park.
4A	14	6	David C. Salmond, Porcupine Plain.

WHEAT POOL DISTRICT 15

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
TRYGVE F. NJAA, HAGEN										
3D	15	1	Thatcher	10.5	—	—	—	52	No. 6	F.
			Selkirk	11.2	—	—	—	54	No. 6	F.
			Lake	11.2	—	—	—	51	Fd.	F.
			Lee	16.0	—	—	—	54	No. 6	F.
			W-120	18.4	—	—	—	56	*	
Necessary difference—2.3 bushels.										
CAROL M. JOHNSON, STEEP CREEK										
3J	15	3	Thatcher	24.4	100	37	5.3	58	4 N.	F.
			Selkirk	27.3	101	37	5.8	58	4 N.	F.
			Lake	23.2	100	41	4.0	56	No. 5	F.
			Lee	25.1	100	38	5.3	57	4 N.	F.
			W-120	26.1	100	43	4.3	58	*	
Necessary difference—1.7 bushels.										
STUART E. HENSCHEL, ROSTHERN										
3G	15	4	Thatcher	15.1	128	—	—	49	Fd.	F.
			Selkirk	23.6	127	—	—	55	No. 5	F.
			Lake	17.0	127	—	—	52	No. 6	F.
			Lee	24.2	127	—	—	53	No. 5	F.
			W-120	33.8	127	—	—	58	*	
Necessary difference—2.5 bushels.										
WILLIAM H. O. REED, SHELL LAKE										
4B	15	6	Thatcher	6.6	—	31	2.8	51	Fd.	F.
			Selkirk	16.5	—	34	3.0	52	No. 6	F.
			Lake	12.1	—	35	1.8	51	Fd.	F.
			Lee	6.5	—	29	2.0	50	Fd.	F.
			W-120	10.4	—	33	2.8	53	*	
Test damaged by livestock—Yields not included in zone summary.										
DUANNE G. LUKAN, PRINCE ALBERT										
3J	15	7	Thatcher	15.1	—	—	—	52	No. 6	F.
			Selkirk	21.0	—	—	—	54	No. 5	F.
			Lake	15.1	—	—	—	52	Fd.	F.
			Lee	17.4	—	—	—	51	Fd.	F.
			W-120	18.7	—	—	—	55	*	
No significant grain yield difference between varieties.										
DONALD R. ANDERSON, STURGEON VALLEY										
3J	15	8	Thatcher	21.1	—	—	—	53	No. 6	F.
			Selkirk	36.2	—	—	—	52	No. 6	F.
			Lake	22.6	—	—	—	49	Fd.	F.
			Lee	28.6	—	—	—	51	No. 6	F.
			W-120	40.7	—	—	—	53	*	
Necessary difference—2.7 bushels.										
WILLIAM POLTORAK, FOXFORD										
3J	15	10	Thatcher	8.8	—	—	4.0	46	Fd.	—
			Selkirk	14.2	—	—	4.3	48	Fd.	—
			Lake	9.5	—	—	3.8	48	Fd.	—
			Lee	13.1	—	—	4.0	47	Fd.	—
			W-120	16.3	—	—	1.0	49	*	
Necessary difference—2.6 bushels.										
CARL C. CARLSEN, CHOICELAND										
4A	15	11	Thatcher	14.9	107	36	2.5	54	No. 6	F., G.
			Selkirk	20.2	106	37	2.8	55	No. 6	F.
			Lake	14.3	110	38	3.0	53	Fd.	F., G.
			Lee	15.7	107	38	2.5	53	Fd.	F.
			W-120	19.2	107	37	2.8	55	*	
Necessary difference—2.3 bushels.										
DALE MANARY, SMEATON										
4A	15	11	Thatcher	8.8	—	29	2.0	51	Fd.	F.
			Selkirk	12.8	—	32	2.0	50	Fd.	F.
			Lake	7.1	—	33	1.3	48	Fd.	—
			Lee	4.0	—	27	3.3	47	Fd.	—
			W-120	14.6	—	30	1.5	51	*	
Necessary difference—1.7 bushels.										

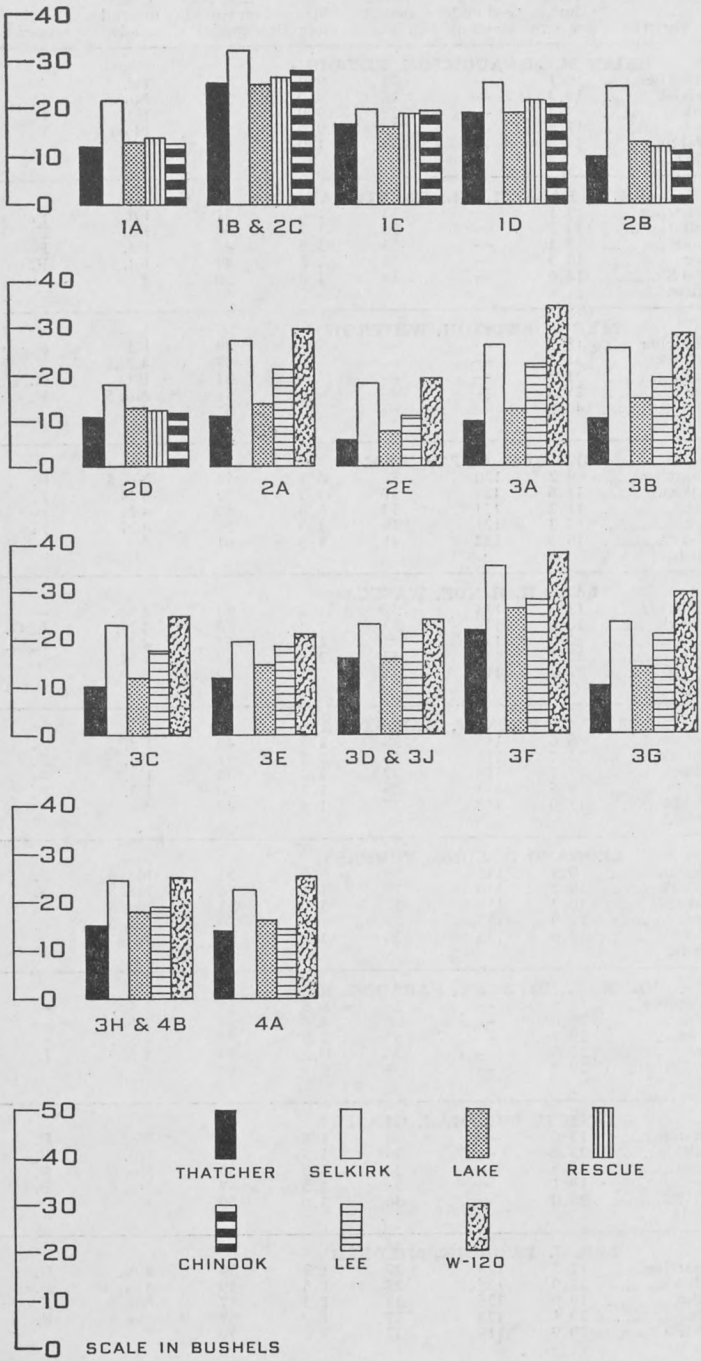
* W-120 wheat has proved lower in milling and baking quality than Thatcher, so it cannot be graded under the usual Canadian standards.

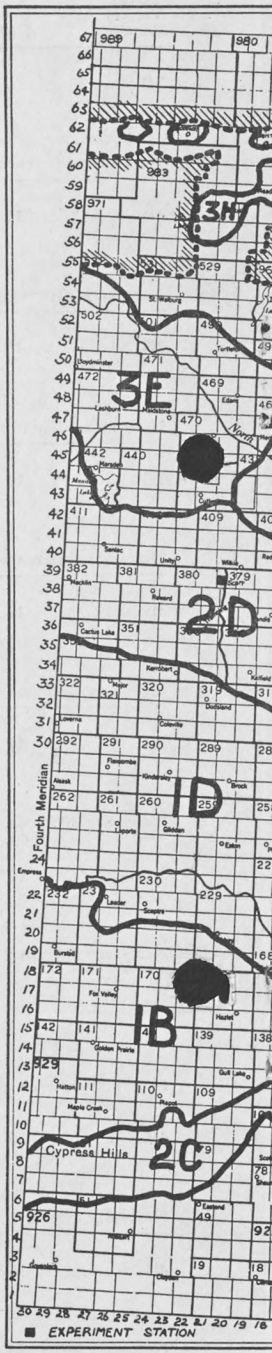
WHEAT POOL DISTRICT 16

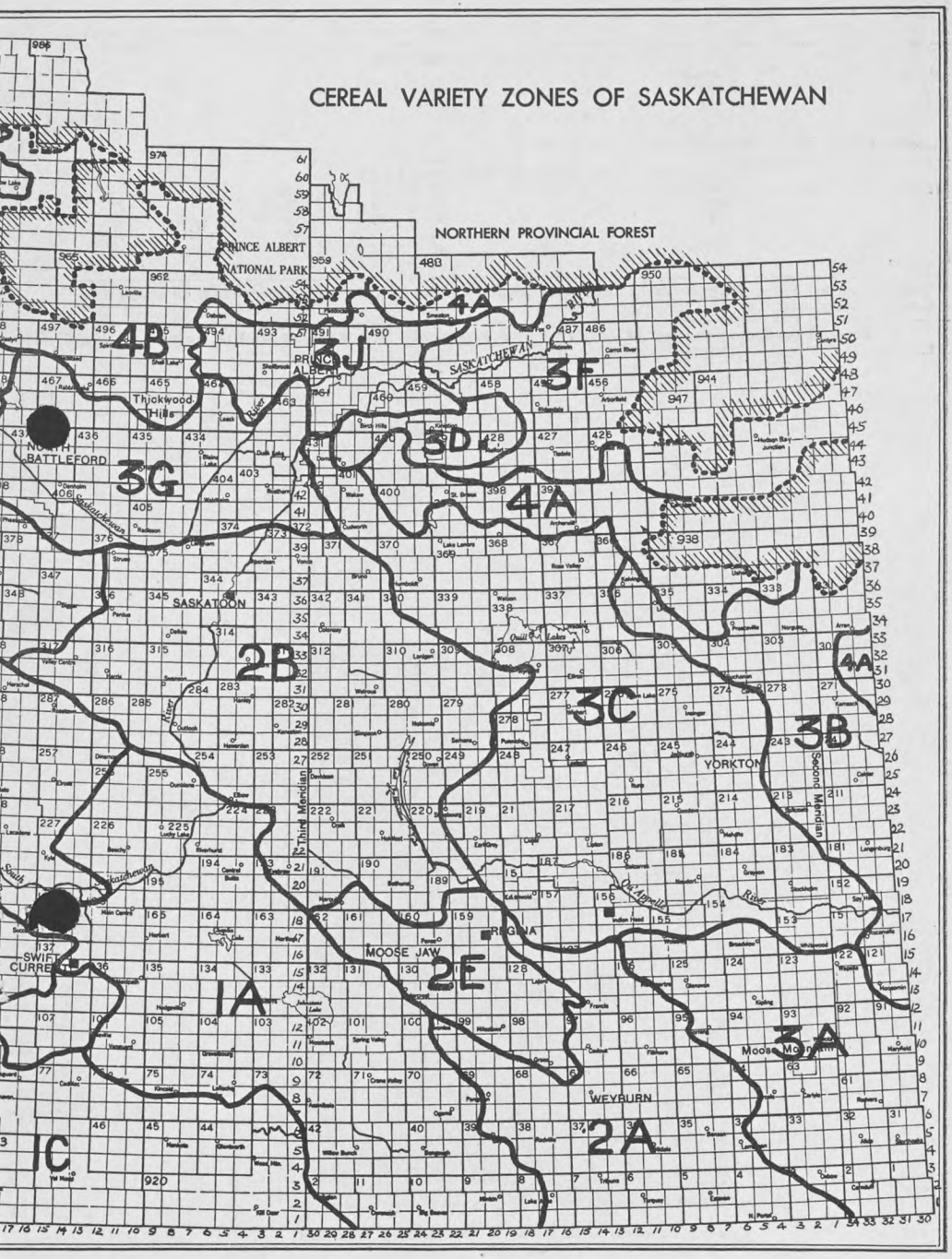
KENNETH W. ZALESCHUK, MAYMONT										
3G	16	1	Thatcher	7.7	130	32	9.0	50	Fd.	F.
			Selkirk	19.3	130	36	7.3	53	No. 6	F.
			Lake	9.0	129	35	9.0	52	No. 6	F.
			Lee	19.7	129	37	5.5	54	No. 6	F.
			W-120	25.6	130	39	2.3	60	*	
Necessary difference—2.8 bushels.										

Wheat Pool District 16—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
BRIAN M. McNAUGHTON, FIELDING										
3G	16	1	Thatcher	6.1	—	26	9.0	47	Fd.	—
			Selkirk	19.4	—	28	9.0	54	No. 5	F.
			Lake	9.4	—	28	9.0	51	Fd.	F.
			Lee	17.8	—	30	9.0	53	No.6	F.
			W-120	24.0	—	37	1.0	58	*	
Necessary difference—2.7 bushels.										
JOE B. BALAZSI, JR., RABBIT LAKE										
4B	16	3	Thatcher	9.1	—	34	1.8	51	Fd.	F.
			Selkirk	13.7	—	30	1.3	50	Fd.	F.
			Lake	8.1	—	28	3.5	46	Fd.	F.
			Lee	10.5	—	36	2.5	49	Fd.	F.
			W-120	14.6	—	34	2.8	50	*	
Necessary difference—2.6 bushels.										
MYRON SWISTON, WHITKOW										
3G	16	3	Thatcher	13.7	—	—	—	49	Fd.	F.
			Selkirk	34.1	—	—	—	57	4 N.	F.
			Lake	21.3	—	—	—	51	Fd.	G., F.
			Lee	25.0	—	—	—	56	No. 5	F.
			W-120	40.6	—	—	—	51	*	
Necessary difference—3.8 bushels.										
DAVID S. OTTAS, EDAM										
3E	16	4	Thatcher	9 2	120	37	6.5	53	No. 5	F.
			Selkirk	11.6	121	37	3.3	57	4 N.	F.
			Lake	11.2	121	39	5.8	56	4 N.	—
			Lee	13.3	121	39	1.5	59	4.N	F.
			W-120	16.5	122	41	1.8	61	*	
Necessary difference—3.2 bushels.										
LANO R. HINDE, WASECA										
3E	16	5	Thatcher	13.6	114	32	1.5	53	4 Sp.	—
			Selkirk	26.6	113	33	1.8	58	4 N.	I., G.
			Lake	20.0	112	35	1.8	57	4 N.	I., G.
			Lee	23.2	114	33	2.0	59	3 N.	I.
			W-120	27.3	117	34	2.3	60	*	
Necessary difference—2.3 bushels.										
KEN W. WESSON, MAIDSTONE										
3E	16	5	Thatcher	6.6	116	36	2.3	49	Fd.	F.
			Selkirk	13.7	118	36	1.5	51	Fd.	F.
			Lake	7.7	118	37	2.0	45	Fd.	—
			Lee	9.5	113	35	1.3	50	Fd.	F.
			W-120	13.0	118	37	1.8	49	*	
Necessary difference—1.0 bushels.										
LEONARD O. LONG, FURNESS										
3E	16	6	Thatcher	9.3	115	30	8.0	52	No. 6	F.
			Selkirk	19.2	116	29	1.0	56	No. 5	F.
			Lake	10.2	118	26	5.0	53	No. 6	F.
			Lee	17.9	113	28	1.0	59	No. 6	F.
			W-120	13.8	116	30	1.0	61	*	
Necessary difference—2.2 bushels.										
JOE R. C. ROTHERY, PARADISE HILL										
3E	16	7	Thatcher	16.0	—	35	8.5	52	5 Sp.	—
			Selkirk	28.0	—	36	8.0	58	2 N.	—
			Lake	19.7	—	37	7.5	55	4 Sp.	—
			Lee	23.6	—	36	9.0	59	4 N.	I.
			W-120	29.7	—	38	9.0	59	*	
Necessary difference—1.8 bushels.										
GARTH H. WILDMAN, GLASLYN										
4B	16	9	Thatcher	13.6	—	34	1.8	54	No. 6	F.
			Selkirk	23.5	—	35	1.5	56	No. 5	F.
			Lake	15.5	—	36	3.0	55	No. 6	F.
			Lee	18.1	—	34	1.5	57	No. 6	F.
			W-120	25.0	—	36	3.0	59	*	
Necessary difference—2.0 bushels.										
LEO. J. TWORDIK, MILDRED										
4B	16	10	Thatcher	17.7	125	27	1.3	59	4 N.	F.
			Selkirk	22.9	125	27	1.5	59	4 N.	F.
			Lake	19.9	125	33	1.3	57	No. 5	F.
			Lee	20.1	124	27	1.0	57	No. 5	F.
			W-120	20.9	119	32	1.0	59	*	
Necessary difference—2.6 bushels.										


40
30
20
10
0
1A
1B & 2C
1C
1D
2B
2D
2A
2E
3A
3B
3C
3E
3D & 3J
3F
3G
3H & 4B
4A
50
40
30
20
10
0
THATCHER
SELKIRK
LAKE
RESCUE
CHINOOK
LEE
W-120
SCALE IN BUSHELS


3H
3E
2D
1D
1B
2C
Cypress Hills
4th Meridian
EXPERIMENT STATION


CEREAL VARIETY ZONES OF SASKATCHEWAN
NORTHERN PROVINCIAL FOREST
PRINCE ALBERT NATIONAL PARK
PRINCE ALBERT
SASKATCHEWAN
NORTH BATTLEFORD
Thickwood Hills
SASKATOON
YORKTON
MOOSE JAW
REGINA
SWIFT CURRENT
WEYBURN
Moose Mountain
Third Meridian
Second Meridian
4A
4B
3J
3F
3D
3G
4A
2B
3C
3B
4A
1A
2E
3A
2A
1C

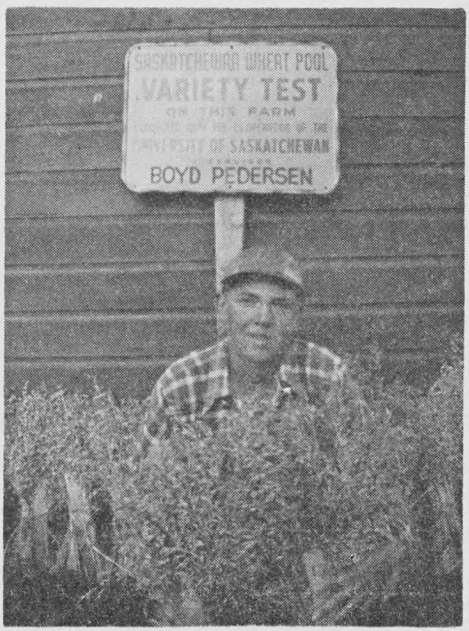
Wheat Pool District 16—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
G. FAYE POTTER, DORINTOSH										
4B	16	11	Thatcher	22.7	—	—	—	56	No. 6	F.
			Selkirk	37.0	—	—	—	57	No. 6	F.
			Lake	21.5	—	—	—	52	Fd.	F.
			Lee	27.4	—	—	—	52	Fd.	F.
			W-120	39.4	—	—	—	56	*	
Samples incomplete—Yields not included in zone summary.										
FRED K. BELICK, MEADOW LAKE										
3H	16	11	Thatcher	17.3	—	35	2.5	56	4 N.	—
			Selkirk	34.2	—	36	1.5	58	4 N.	F.
			Lake	26.4	—	39	2.8	55	No. 5	F.
			Lee	24.4	—	34	1.5	59	4 N.	F.
			W-120	36.7	—	40	4.5	60	*	
Necessary difference—4.4 bushels.										

* W-120 wheat has proved lower in milling and baking quality than Thatcher so it cannot be graded under the usual Canadian standards.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3H	16	11	Henry Masson, South Makwa.



Boyd Pedersen with some of the sheaves from his oat test.

OAT TESTS

A total of 80 oat tests were conducted in 1954. The varieties Exeter, Eagle, Rodney and the new selection of the variety Garry (known as Garry 27), were included in all tests.

DESCRIPTION OF VARIETIES

Note—For a report on the official recommendations and the yielding ability of these varieties, see "Summarization According to Cereal Variety Zones" on page 47.

Exeter is a late maturing, large seeded variety with tall, slightly weak straw. It is resistant to most but not all races of stem rust, but is moderately susceptible to leaf rust and the smuts. Exeter is a well known variety in Saskatchewan and was included in these tests as a standard of comparison.

Eagle matures about the same time as Exeter but has stronger straw. It is susceptible to rusts and smuts. Eagle has performed well in Alberta and appears to be adapted to certain areas of western Saskatchewan. It has a smaller kernel than Exeter.

Rodney is a new variety developed by the Laboratory of Cereal Breeding, Winnipeg, and licensed for commercial distribution in 1953. It is mid-late in maturity, high yielding and has strong straw. Rodney is resistant to most races of stem and leaf rust and to loose and covered smut. It has a large plump kernel with a thin hull which tends to shed if not threshed with care.

Garry was grown in Wheat Pool tests under the code number OT-139. This new strain, known as Garry 27, was selected from the variety Garry and has resistance to Victoria blight which the original variety did not have. It is resistant to all the races of rust now prevalent, and also to smut. Garry has a plump kernel which is slightly smaller than the kernel of Rodney. It has strong straw and is earlier maturing than Exeter.

Table No. 26—Average Yields in Bushels Per Acre Summarized by Cereal Variety Zones

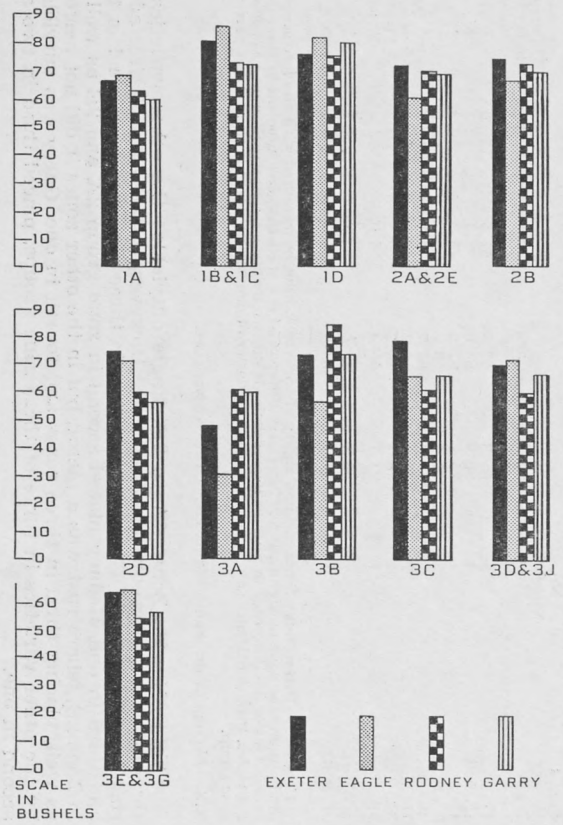
Cereal Variety Zone	No. of Satisfactory Tests	Exeter	Eagle	Rodney	Garry	Necessary Difference* in Bushels
1A	6	65.3	67.7	62.5	59.0	6.11
1B & 1C	3	80.9	84.0	72.3	72.2	N.S.
1D	4	75.7	82.6	75.3	79.3	N.S.
2A & 2E	5	71.2	60.2	69.7	68.9	7.31
2B	7	73.7	65.7	71.7	69.8	5.90
2D	2	73.6	70.2	59.6	55.1	N.S.
3A	4	48.1	30.2	60.5	60.3	13.57
3B	3	73.1	56.4	85.0	73.4	15.08
3C	2	78.9	65.7	60.9	65.9	N.S.
3D & 3J	2	70.5	71.9	60.1	66.5	N.S.
3E & 3G	5	63.5	63.9	54.2	56.1	N.S.

* **Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of these differences. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over another in that particular zone group.

N.S.—No significant grain yield difference between varieties.

Table No. 26. Zones 1A to 2E. **Eagle** outyielded the other varieties in three of the zone groups in this region. However, in those zones affected by rust it placed fourth. **Exeter** placed first in three zone groups, second in two and third in one. **Rodney** placed second in zone group 2A and 2E as well as in Zone 2B, where rust was a factor, but in the other zones it did not perform as well, placing third in three zones and fourth in one. **Garry** was outyielded by the other varieties in three of these zone groups, placed third in two and second in one.

HISTOGRAMS SHOWING OAT YIELDS BY CEREAL VARIETY ZONES





Zones 3A to 3G. **Eagle** placed first in the west central zones of this region but was outyielded by the other three varieties under rust conditions in Zones 3A and 3B. **Rodney** placed first in these two zones but placed fourth in the other three zone groups where rust was less pronounced. **Exeter** placed first in Zone 3C, second in two other zone groups and third in two. **Garry** placed second in three of these zones but placed third in those zones located in the northern and northwestern part of the region.

Table No. 27—Average Number of Days from Seeding to Ripening Summarized by Cereal Variety Zones

Cereal Variety Zone	Exeter	Eagle	Rodney	Garry
1A	103.5	103.0	101.0	100.0
1B & 1C	111.0	111.0	107.0	104.0
1D	103.5	103.3	102.8	102.3
2A & 2E	108.3	108.0	108.0	105.0
2B	113.0	112.0	112.0	111.0
2D	125.0	125.0	122.0	122.0
3A	107.3	103.8	106.5	107.5
3B	96.0	95.0	95.5	93.0
3C	107.0	107.3	105.0	107.0
3D & 3J	110.0	115.0	116.0	111.0
3E & 3G	112.0	111.8	112.3	111.5

Table No. 27. Zones 1A to 2E. **Garry** ripened earlier than the other varieties in five of these zone groups and was equalled by Rodney in the sixth. **Rodney** placed second in three of these zone groups and tied for second place in two others. **Eagle** placed third in three cases and tied for second place in three other zone groups. **Exeter** was somewhat later than the other varieties in these zones although it tied for second place in Zone 2D.

Zone 3A to 3G. No general statement can be made concerning the order of ripening of these varieties since there was considerable variation from one zone to another. **Garry** appeared to be relatively early except in Zone 3A where it placed fourth. Among the other varieties no definite pattern can be established.

Table No. 28—Average Height of Plants in Inches Summarized by Cereal Variety Zones

Cereal Variety Zone	Exeter	Eagle	Rodney	Garry
1A	36.7	37.3	36.2	36.7
1B & 1C	32.0	30.0	31.0	31.7
1D	33.0	34.0	32.8	33.8
2A & 2E	35.5	35.5	36.5	38.0
2B	39.0	37.0	38.0	40.0
2D	31.0	33.0	24.0	27.0
3A	37.0	37.0	39.4	41.4
3B	41.0	40.0	41.5	40.5
3C	43.7	44.0	44.0	42.7
3D & 3J	43.0	42.0	41.0	42.0
3E & 3G	36.3	36.5	35.8	36.0

Table No. 28. Zone 1A to 2E. The differences in height were not sufficient to have any influence on the choice of a variety. **Eagle** placed first in height in three of these zones, but it placed fourth in Zone Group 1B and 1C. In the two remaining zone groups it placed third. **Garry** placed first in two zone groups, second in three others and third in one. **Exeter** was tallest in one zone only. **Rodney** placed second in two zone groups, third in two and fourth in the remaining two.

Zones 3A to 3G. Examination of this table shows considerable variation in placing from one zone to the next and no general statement can be made to apply to all zones. There were only minor differences in height among the four varieties.

Table No. 29—Average Straw Strength of Plants
On the Basis 1 (strong)—9 (weak)
Summarized by Cereal Variety Zones

Cereal Variety Zone	Exeter	Eagle	Rodney	Garry
1A	5.2	5.2	4.3	4.5
1B & 1C	3.5	2.8	3.0	2.3
1D	4.1	2.7	2.8	2.7
2A & 2E	3.3	3.3	3.3	1.7
2B	3.3	4.3	3.2	2.2
2D	6.0	8.0	2.0	5.0
3A	4.7	7.9	1.8	2.2
3B	4.3	5.8	1.8	2.3
3C	4.3	4.4	2.2	3.3
3D & 3J	7.0	5.8	3.0	5.0
3E & 3G	3.3	2.7	2.1	2.6

Table No. 29. Zones 1A to 2E. With the exception of Eagle and Exeter in Zone 2D the straw strength of all varieties in these zones was quite satisfactory. In general **Garry** showed better straw strength than the other varieties. **Rodney** also showed good straw strength. **Exeter** rated somewhat lower than the two preceding varieties, but only in Zone 2D could the term "somewhat weak" be used. **Eagle** was rated generally lower than the other varieties, although it should be noted that serious weakness appeared only in Zone 2D.

Zones 3A to 3G. The placing of varieties in these zones with regard to straw strength was fairly consistent. **Rodney** exceeded the other varieties in all zones, and **Garry** placed second in all zones. **Exeter** placed third in three zones and fourth in the remaining two. **Eagle** placed fourth in three zones and third in the other two.

Table No. 30—Average Weight per Measured Bushel
Summarized by Cereal Variety Zones

Cereal Variety Zone	Exeter	Eagle	Rodney	Garry
1A	37.3	35.7	37.5	38.2
1B & 1C	34.8	34.0	36.2	35.2
1D	38.0	36.4	38.2	37.2
2A & 2E	34.2	30.0	34.7	33.0
2B	35.9	33.9	37.9	36.3
2D	37.0	35.3	35.0	37.7
3A	25.2	20.2	32.0	32.2
3B	33.7	29.0	37.0	35.7
3C	33.2	30.4	35.4	33.8
3D & 3J	32.5	32.5	32.0	30.5
3E & 3G	37.6	36.4	38.2	36.6

Table No. 30. Zones 1A to 2E. **Rodney** produced the highest bushel weight in all but two of these zone groups. In Zone 1A it placed second and in 2D it showed the lowest bushel weight. **Garry** placed first in these two zones, second in two and third in the remaining two. **Exeter** placed second in three zone groups and third in the same number. **Eagle** was lowest in bushel weight in all but one of these zone groups.

Zones 3A to 3G. The differences in bushel weight between **Rodney** and **Garry** in these zones were of a minor nature, but in most zones Rodney weighed slightly heavier. **Exeter** placed third in most of these zones, although it tied for first place in Zone Group 3D and 3J. **Eagle** showed the lowest bushel weight of the varieties tested in all but one zone group.

Table No. 31—Commercial Grades in Percentage
(Zones 1A to 2E)

Variety	1 C.W.	2 C.W.	3 C.W.	1 Feed	2 Feed	3 Feed
	%	%	%	%	%	%
Exeter	9.4	9.4	12.5	53.1	12.5	3.1
Eagle	3.1	9.4	12.5	43.7	18.8	12.5
Rodney	9.4	9.4	15.6	56.3	—	9.4
Garry	6.3	12.5	15.6	56.2	6.3	3.1

(Zones 3A to 3G)

Variety	1 C.W.	2 C.W.	3 C.W.	1 Feed	2 Feed	3 Feed
	%	%	%	%	%	%
Exeter	8.7	4.3	13.0	21.8	26.1	26.1
Eagle	4.3	4.3	21.8	17.4	17.4	34.8
Rodney	8.7	—	13.0	56.6	8.7	13.0
Garry	4.3	8.7	13.0	34.8	21.8	17.4

Table No. 31. Zones 1A to 2E. In these zones there was little difference in the grading ability of the four varieties. A total of 34.4% of both the **Rodney** and **Garry** samples placed in the three top grades compared with 31.3% for **Exeter** and 25.0% for **Eagle.**

Zones 3A to 3G. In these zones **Eagle** graded slightly better than the others on an average basis, although there was not a great difference between any of the varieties. A total of 30.4% of the **Eagle** samples were included in the three top grades, compared with 26.0% for **Exeter** and **Garry,** and 21.7% for **Rodney.** A number of characteristics of **Rodney** cause it to be degraded in spite of its high bushel weight. This variety has a thin, loose hull which tends to shed when threshed unless special care is taken. The thin hull also makes it somewhat more subject to frost damage.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

When choosing a variety for use in any district, it is advisable to study the results of a number of tests conducted under similar conditions, preferably over a period of several years. For this reason these tests have been summarized according to Cereal Variety Zones. Each zone is made up of an area in which the factors affecting crop production are generally similar. A map showing the location of these zones is shown on pages 40 and 41. No oat tests were conducted by the Wheat Pool for some years prior to 1954 but the official recommendations referred to are the recommendations of the Saskatchewan Advisory Council on Grain Crops, and are based on several years' tests.

Table No. 32—Summarized Results for Zone 1A

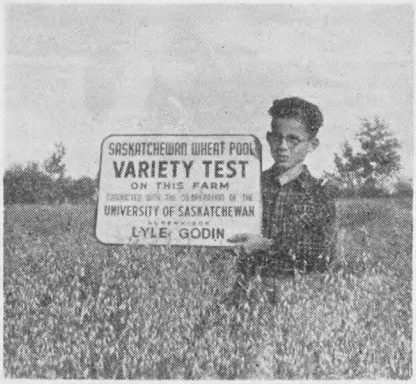
(6 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	65.3	67.7	62.5	59.0
Days from seeding to ripening	103.5	103.0	101.0	100.0
Plant height in inches	36.7	37.3	36.2	36.7
Straw strength (maximum of 1)	5.2	5.2	4.3	4.5
Bushel weight in pounds	37.3	35.7	37.5	38.2
Commercial grades in percentage: 1 C.W.	16.7	—	16.7	—
2 C.W.	—	16.7	—	—
3 C.W.	16.7	—	16.7	16.7
1 Feed	66.6	66.6	66.6	83.3
2 Feed	—	16.7	—	—

Necessary difference—6.1 bushels.



Beverley Fiala of Hyas demonstrates the height of the oats in the test which she conducted.



Lyle Godin inspecting his oat test at Shipman

Table No. 32. **Eagle** outyielded the other varieties in this zone in 1954, although the difference was significant only in the case of Garry. **Eagle** appears to be adapted to this area, but more testing is required before any official recommendation can be made.

Exeter placed second in this zone in 1954. However, Zone 1A is usually characterized by drought conditions, so other, more drought-resistant varieties are officially recommended.

Rodney and **Garry** placed third and fourth respectively. These two varieties were tested widely for the first time in 1954. Both are noted for their rust resistance, but further testing must be done to determine their performance in areas where rust does not usually occur. For this reason Rodney and Garry are officially recommended for 1955 for two zones only, in which rust can be expected to occur in most years.

Ajax and Fortune are officially recommended for this zone.

Table No. 33—Summarized Results for Zone Group 1B and 1C

(3 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yields in bushels per acre	80.9	84.0	72.3	72.2
Days from seeding to ripening	111.0	111.0	107.0	104.0
Plant height in inches	32.0	30.0	31.0	31.7
Straw strength (maximum of 1)	3.5	2.8	3.0	2.3
Bushel weight in pounds	34.8	34.0	36.2	35.2
Commercial grades in percentage: 1 C.W.	—	—	20.0	—
2 C.W.	20.0	—	—	20.0
3 C.W.	20.0	40.0	—	20.0
1 Feed	40.0	40.0	60.0	40.0
2 Feed	—	—	—	20.0
3 Feed	20.0	20.0	20.0	—

No significant grain yield difference between varieties.

Table No. 33. **Eagle** outyielded the other varieties tested in 1954. While further testing is required before official recommendations can be made, Eagle appears to have a place in this zone.

Exeter placed second in 1954, but as mentioned in the discussion on Zone 1A above, it is less drought resistant than some other varieties and is not officially recommended for either of these zones.

Rodney and **Garry** placed third and fourth respectively, with very little difference in yield between them. Insufficient testing has been done on these varieties to determine their adaptability to these zones.

These zones, like Zone 1A, are subject to drought and so the varieties Ajax and Fortune are officially recommended.

Table No. 34—Summarized Results for Zone 1D

(4 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	75.7	82.6	75.3	79.3
Days from seeding to ripening	103.5	103.3	102.8	102.3
Plant height in inches	33.0	34.0	32.8	33.8
Straw strength (maximum of 1)	4.1	2.7	2.8	2.7
Bushel weight in pounds	38.0	36.4	38.2	37.2
Commercial grades in percentage: 1 C.W.	40.0	20.0	20.0	40.0
2 C.W.	20.0	40.0	40.0	20.0
3 C.W.	20.0	20.0	20.0	20.0
1 Feed	20.0	—	20.0	20.0
2 Feed	—	20.0	—	—

No significant grain yield difference between varieties.

Table No. 34. **Eagle** outyielded the other varieties in this zone in 1954, although it should be noted that the differences were not statistically significant. Eagle appears to be adapted to this general area of the province and it is officially recommended for Zone 1D.

Garry placed second in 1954, but it is recommended for 1955 only for those zones where rust can be expected in most years.

Exeter and **Rodney** placed third and fourth in that order, with little difference between them. Exeter is recommended for this zone, but Rodney has not been tested sufficiently for it to be recommnded.

In addition to those varieties mentioned above, Ajax and Fortune are officially recommended for Zone 1D.

Table No. 35—Summarized Results for Zone Group 2A and 2E

(5 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	71.2	60.2	69.7	68.9
Days from seeding to ripening	108.3	108.0	108.0	105.0
Plant height in inches	35.5	35.5	36.5	38.0
Straw strength (maximum of 1)	3.3	3.3	3.3	1.7
Bushel weight in pounds	34.2	30.0	34.7	33.0
Commercial grades in percentage: 3 C.W.	16.7	16.7	33.3	16.6
1 Feed	50.0	16.7	50.0	50.0
2 Feed	33.3	33.3	—	16.7
3 Feed	—	33.3	16.7	16.7

Necessary difference—7.3 bushels.

Table No. 35. **Exeter** outyielded the other three varieties in these zones in 1954. It has performed well in these zones in the past and is officially recommended for both of them.

Rodney placed second but requires further testing before a recommendation can be made.

Garry placed third in this zone group in its first year of testing.

Eagle was substantially outyielded by the other varieties due to the effect of rust.

In Zone 2A Ajax and Fortune are officially recommended in addition to Exeter, and in Zone 2E Exeter is the only variety recommended.

Table No. 36—Summarized Results for Zone 2B

(7 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	73.7	65.7	71.7	69.8
Days from seeding to ripening	113.0	112.0	112.0	111.0
Plant height in inches	39.0	37.0	38.0	40.0
Straw strength (maximum of 1)	3.3	4.3	3.2	2.2
Bushel weight in pounds	35.9	33.9	37.9	36.3
Commercial grades in percentage: 2 C.W.	14.3	—	14.3	28.6
3 C.W.	—	—	14.3	14.3
1 Feed	57.1	71.4	71.4	57.1
2 Feed	28.6	14.3	—	—
3 Feed	—	14.3	—	—

Necessary difference—5.9 bushels.

Table No. 36. **Exeter** outyielded the other varieties in this zone and is officially recommended.

Rodney yielded slightly below **Exeter.**

Garry placed third in this zone and **Eagle** was outyielded by the other three varieties. Rust influenced the yields over all of this zone in 1954, but in most years it would affect only a small part of the zone.

In addition to Exeter, Ajax and Fortune are officially recommended for this zone.

Cereal Variety Zone 2C

No successful tests were conducted in this zone in 1954. Ajax and Fortune are officially recommended for Zone 2C.

Table No. 37—Summarized Results for Zone 2D

(2 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	73.6	70.2	59.6	55.1
Days from seeding to ripening	125.0	125.0	122.0	122.0
Plant height in inches	31.0	33.0	24.0	27.0
Straw strength (maximum of 1)	6.0	8.0	2.0	5.0
Bushel weight in pounds	37.0	35.3	35.0	37.7
Commercial grades in percentage: 1 Feed	100.0	66.7	66.7	100.0
2 Feed	—	33.3	—	—
3 Feed	—	—	33.3	—

No significant grain yield difference between varieties.

Table No. 37. **Exeter** outyielded the other varieties in this zone in 1954, and is officially recommended.

Eagle placed second in 1954, and because of its particular adaptation to this area of the province it is officially recommended.

Rodney and **Garry** were somewhat lower in yield than the other two varieties. Because rust is not usually a factor of importance in this zone, Rodney and Garry are not recommended.

In addition to the varieties mentioned above, Fortune is also officially recommended.

Table No. 38—Summarized Results for Zone 3A

(4 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	48.1	30.2	60.5	60.3
Days from seeding to ripening	107.3	103.8	106.5	107.5
Plant height in inches	37.0	37.0	39.4	41.4
Straw strength (maximum of 1)	4.7	7.9	1.8	2.2
Bushel weight in pounds	25.2	20.2	32.0	32.2
Commercial grades in percentage: 1 Feed	—	—	60.0	20.0
2 Feed	20.0	20.0	20.0	60.0
3 Feed	80.0	80.0	20.0	20.0

Necessary difference—13.6 bushels.

Table No. 38. **Rodney** outyielded the other varieties tested in this zone in 1954. Rust can be expected in this zone in most years, so the use of a rust resistant variety is important. For this reason, although Rodney has been tested for only one year, it is officially recommended for this zone.

Garry was slightly lower in yield than Rodney and is also officially recommended because of its rust resistance.

Exeter yielded substantially lower than the two previous varieties but is also recommended for this zone.

Eagle was reduced considerably in yield as a result of rust. It is not recommended.

In addition to the varieties mentioned above, Fortune is officially recommended.

Table No. 39—Summarized Results for Zone 3B

(3 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	73.1	56.4	85.0	73.4
Days from seeding to ripening	96.0	95.0	95.5	93.0
Plant height in inches	41.0	40.0	41.5	40.5
Straw strength (maximum of 1)	4.3	5.8	1.8	2.3
Bushel weight in pounds	33.7	29.0	37.0	35.7
Commercial grades in percentage: 3 C.W.	33.3	33.4	33.3	33.3
1 Feed	33.3	—	66.7	66.7
2 Feed	33.4	33.3	—	—
3 Feed	—	33.3	—	—

Necessary difference—15.1 bushels.

Table No. 39. **Rodney** substantially outyielded the other varieties tested in 1954. Because Zone 3B is commonly subject to rust, Rodney can be expected to perform well there in most years, and it is officially recommended.

Garry placed second in 1954. Although it has been tested for only one year, due to the importance of using a rust resistant variety in this zone, it is officially recommended.

Exeter has performed well in Zone 3B for a number of years and it is also officially recommended.

Eagle was damaged considerably by rust and yielded substantially lower than the other varieties tested.

Table No. 40—Summarized Results for Zone 3C

(2 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	78.9	65.7	60.9	65.9
Days from seeding to ripening	107.0	107.3	105.0	107.0
Plant height in inches	43.7	44.0	44.0	42.7
Straw strength (maximum of 1)	4.3	4.4	2.2	3.3
Bushel weight in pounds	33.2	30.4	35.4	33.8
Commercial grades in percentage: 2 C.W.	20.0	—	—	20.0
3 C.W.	20.0	40.0	20.0	20.0
1 Feed	—	20.0	60.0	20.0
2 Feed	40.0	—	—	—
3 Feed	20.0	40.0	20.0	40.0

No significant grain yield difference between varieties.

Table No. 40. **Exeter** outyielded the other three varieties in this zone but it should be noted that in no case was the difference statistically significant. Exeter is officially recommended for Zone 3C on the basis of its past performance.

Garry placed second in this zone, but for 1955 it is recommended only in the zones where rust can be expected to occur in most years, that is in 3A and 3B.

Eagle placed third in this zone and does not appear to be adapted to this area of the province.

Rodney was outyielded by the other three varieties in this zone.

Fortune is also officially recommended for zone 3C.

Table No. 41—Summarized Results for Zone Group 3D and 3J

(2 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	70.5	71.9	60.1	66.5
Days from seeding to ripening	110.0	115.0	116.0	111.0
Plant height in inches	43.0	42.0	41.0	42.0
Straw strength (maximum of 1)	7.0	5.8	3.0	5.0
Bushel weight in pounds	32.5	32.5	32.0	30.5
Commercial grades in percentage: 3 CW	—	50.0	50.0	—
2 Feed	100.0	50.0	50.0	100.0

No significant grain yield difference between varieties.

Table No. 41. **Eagle** outyielded the other varieties in this zone, followed closely by **Exeter. Eagle** is officially recommended for Zone 3J and Exeter is recommended for both of these zones.

Garry placed third and on the basis of one year's tests does not appear to be adapted to these zones.

Rodney was outyielded by the other three varieties in these zones.

Fortune is officially recommended for Zone 3D, in addition to Exeter.

Table No. 42—Summarized Results for Zone Group 3E and 3G

(5 satisfactory tests)

	Exeter	Eagle	Rodney	Garry
Yield in bushels per acre	63.5	63.9	54.2	56.1
Days from seeding to ripening	112.0	111.8	112.3	111.5
Plant height in inches	36.3	36.5	35.8	36.0
Straw strength (maximum of 1)	3.3	2.7	2.1	2.6
Bushel weight in pounds	37.6	36.4	38.2	36.6
Commercial grades in percentage: 1 C.W.	40.0	20.0	40.0	20.0
2 C.W.	—	20.0	—	20.0
3 C.W.	20.0	20.0	—	20.0
1 Feed	40.0	40.0	60.0	40.0

No significant grain yield difference between varieties.

Table No. 42. **Eagle** placed first in this zone group, outyielding **Exeter** by a narrow margin. Eagle is officially recommended for Zone 3E and Exeter for both these zones.

Garry placed third in this zone group and is not recommended.

Rodney was outyielded by the other varieties tested.

In addition to the varieties mentioned above, Ajax and Fortune are recommended for both these zones.

Cereal Variety Zone 3F

Only one successful test was conducted in this zone. For the results of this test the reader is referred to the section "Individual Results of All Tests —Oats" under District 14, Subdistrict 10, conducted by Miles Pritchard of Runciman. Eagle and Exeter are officially recommended for this zone.

Cereal Variety Zone 3H

Only one successful test was conducted in this zone also. It can be found in the section "Individual Results of all Tests—Oats" under District 16, Subdistrict 11, conducted by Richard Hutter of Goodsoil. Fortune and Victory are officially recommended for zone 3H.

Cereal Variety Zone 4A

No successful tests were conducted in this zone in 1954. Exeter is the only variety officially recommended for this zone.

Cereal Variety Zone 4B

All tests but one in this zone were destroyed by various causes. The one successful test can be found on page 58 under District 16, Subdistrict 8, conducted by David J. Rundberg of Spruce Lake. Both Eagle and Exeter are officially recommended for this zone.



Norman Pound of Craik standing beside the oat test which he supervised.

Table No. 43

Individual Summarized Results of All Tests—Oats

The results of all successful oats tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The Zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
BETTY C. CAVEN, GAINSBOROUGH										
3A	1	1	Exeter	19.2	—	32	3.0	21	3 Fd.	—
			Eagle	3.9	—	32	9.0	12	3 Fd.	—
			Rodney	29.2	—	36	1.0	25	3 Fd.	—
			Garry	28.6	—	38	1.0	27	3 Fd.	—
[illegible]st damaged by flooding—Yields not included in zone summary.										
RAYMOND G. CUGNET, WEYBURN										
2A	1	8	Exeter	64.8	—	—	—	31	2 Fd.	—
			Eagle	46.7	—	—	—	27	3 Fd.	—
			Rodney	48.4	—	—	—	35	3 CW	—
			Garry	59.2	—	—	—	33	2 Fd.	—
No significant grain yield difference between varieties.										
BOYD P. PEDERSEN, WAUCHOPE										
3A	1	10	Exeter	47.8	105	41	5.8	21	3 Fd.	—
			Eagle	23.0	102	39	8.0	14	3 Fd.	—
			Rodney	79.8	106	41	2.5	30	2 Fd.	—
			Garry	79.5	104	43	3.5	32	2 Fd.	—
Necessary difference—14.1 bushels.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2A	1	4	James E. Miller, Bienfait.							
2A	1	6	Corrine J. Swenson, Midale.							
2A	1	7	William C. Muirhead, Bromhead.							

WHEAT POOL DISTRICT 2

ALBERT H. SLATER, CLEARFIELD										
2A	2	1	Exeter	56.2	—	—	—	29	2 Fd.	—
			Eagle	22.4	—	—	—	24	3 Fd.	—
			Rodney	69.9	—	—	—	25	3 Fd.	—
			Garry	72.3	—	—	—	23	3 Fd.	—
Test damaged—Yields not included in zone summary.										
ERIC KOLLER, SCOUT LAKE										
1C	2	4	Exeter	71.6	111	34	—	37	3 CW	I.
			Eagle	81.1	111	32	—	36	3 CW	W.
			Rodney	67.6	107	32	—	39	1 Fd.	G.
			Garry	72.3	104	34	—	37	3 CW	W.
[illegible]significant grain yield difference between varieties.										
LLOYD BRANDT, WHEATSTONE										
1A	2	9	Exeter	37.5	—	36	—	37	1 Fd.	G.
			Eagle	37.7	—	37	—	36	1 Fd.	G.
			Rodney	43.7	—	34	—	34	1 Fd.	G.
			Garry	40.7	—	33	—	38	1 Fd.	G.
No significant grain yield difference between varieties.										
ALBERT E. WEBB, AMULET										
1A	2	10	Exeter	71.3	106	41	6.8	37	1 Fd.	G.
			Eagle	75.0	104	41	5.3	34	1 Fd.	G.
			Rodney	74.0	104	39	5.0	39	1 Fd.	G.
			Garry	70.3	103	39	4.5	38	1 Fd.	G.
No significant grain yield difference between varieties.										

WHEAT POOL DISTRICT 3

MERVIN V. KLEIN, MANKOTA										
1C	3	1	Exeter	57.3	—	29	3.5	37	2 CW	—
			Eagle	62.6	—	28	2.8	36	3 CW	G.
			Rodney	56.8	—	30	3.0	39	1 CW	—
			Garry	53.6	—	31	2.3	37	2 CW	—
Some rows damaged—Yields not included in zone summary.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ALFRED L. WARDBERG, ROBSART										
1C	3	5	Exeter	14.8	—	—	—	25	3. Fd	—
			Eagle	15.8	—	—	—	24	3 Fd.	—
			Rodney	14.5	—	—	—	26	3 Fd.	—
			Garry	23.3	—	—	—	28	2 Fd.	—
Test damaged—Yields not included in zone summary.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
1C	3	7	Edwin H. Richardson, Eastend.							
1C	3	9	Carl R. Klein, Admiral.							

WHEAT POOL DISTRICT 4

GEORGE R. WEDRICK, CARMICHAEL										
1B	4	1	Exeter	93.8	—	—	—	37	1 Fd.	G.
			Eagle	86.4	—	—	—	36	1 Fd.	G.
			Rodney	80.5	—	—	—	38	1 Fd.	G.
			Garry	75.1	—	—	—	36	1 Fd.	G.
Necessary difference—8.2 bushels.										
EARL J. WALLACE, PENNANT										
1B	4	5	Exeter	77.4	—	33	—	38	1 Fd.	G.
			Eagle	84.6	—	30	—	38	1 Fd.	G.
			Rodney	68.7	—	31	—	39	1 Fd.	G.
			Garry	69.3	—	30	—	38	1 Fd.	G.
Necessary difference—5.9 bushels.										
RAYMOND E. RAYCHYBA, PRELATE										
1D	4	8	Exeter	56.4	97	41	6.8	34	1 Fd.	—
			Eagle	63.6	97	42	3.0	32	2 Fd.	—
			Rodney	36.2	98	36	3.5	36	1 Fd.	G.
			Garry	47.8	97	42	4.3	34	1 Fd.	G.
Test damaged by animals—Yields not included in zone summary.										
WARREN S. MORREY, SHACKLETON										
1D	4	10	Exeter	83.0	110	—	—	38	2 CW	G.
			Eagle	93.1	110	—	—	37	2 CW	—
			Rodney	92.3	108	—	—	38	2 CW	G.
			Garry	89.4	109	—	—	37	2 CW	—
No significant grain yield difference between varieties..										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2C	4	3	Carolyn Stern, Wymark.							

WHEAT POOL DISTRICT 5

ALLAN LIGGINS, MAZENOD										
1A	5	1	Exeter	84.2	101	29	—	38	1 Fd.	G.
			Eagle	83.1	102	28	—	37	1 Fd.	G.
			Rodney	82.0	98	29	—	38	1 Fd.	G.
			Garry	72.7	97	28	—	38	1 Fd.	G.
Necessary difference—2.7 bushels.										
JAMES H. WIELER, PAMBURN										
1A	5	3	Exeter	86.4	—	38	6.0	39	1 Fd.	G.
			Eagle	101.3	—	41	6.0	38	1 Fd.	G.
			Rodney	70.6	—	38	4.8	34	1 Fd.	G.
			Garry	76.4	—	45	6.0	41	1 Fd.	G.
Necessary difference—11.8 bushels.										
FRANK G. MERCER, GRAYBURN										
2E	5	7	Exeter	47.7	106	—	2.0	36	3 CW	G.
			Eagle	43.7	106	—	2.0	34	3 CW	—
			Rodney	42.6	106	—	5.0	37	3 CW	G.
			Garry	49.2	103	—	1.0	36	3 CW	G.
No significant grain yield difference between varieties.										
Tests destroyed on account of damage by flooding, pests, hail, drought or other causes										
1A	5	4	Lloyd E. Cowan, Waldeck.							

WHEAT POOL DISTRICT 6

STANLEY G. PETRUIC, AVONLEA										
1A	6	4	Exeter	51.3	—	44	4.8	35	3 CW	—
			Eagle	49.8	—	45	6.5	33	2 Fd.	—
			Rodney	44.2	—	45	4.5	39	3 CW	G.
			Garry	37.9	—	43	4.5	37	3 CW	G.
No significant grain yield difference between varieties.										

Wheat Pool District 6—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROBERT W. OKERSTROM, ARCHIVE										
2E	6	5	Exeter	81.1	—	—	—	35	1 Fd.	G.
			Eagle	74.8	—	—	—	30	2 Fd.	—
			Rodney	93.8	—	—	—	36	1 Fd.	G.
			Garry	85.0	—	—	—	36	1 Fd.	G.
No significant grain yield difference between varieties.										
G. BARRY WEBSTER, HEARNE										
2E	6	6	Exeter	88.2	109	34	2.8	36	1 Fd.	G.
			Eagle	82.8	110	35	4.8	31	2 Fd.	—
			Rodney	99.5	111	38	3.0	38	1 Fd.	G.
			Garry	82.3	107	37	2.0	34	1 Fd.	G.
No significant grain yield difference between varieties.										
WILLIAM D. MARTIN, REGINA										
2E	6	7	Exeter	74.2	110	37	5.0	38	1 Fd.	G.
			Eagle	52.8	108	36	3.0	34	1 Fd.	G.
			Rodney	64.3	107	35	2.0	37	1 Fd.	G.
			Garry	68.7	105	39	2.0	36	1 Fd.	G.
Necessary difference—4.4 bushels.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2B	6	10	Kenneth G. Kistner, Disley.							

WHEAT POOL DISTRICT 7

JAMES E. BROWNLEE, WAWOTA										
3A	7	3	Exeter	40.7	106	38	6.3	26	3 Fd.	—
			Eagle	25.8	102	43	6.5	21	3 Fd.	—
			Rodney	54.8	107	42	1.5	34	1 Fd.	—
			Garry	52.6	107	43	2.3	32	2 Fd.	—
Necessary difference—3.2 bushels.										
RICHARD A. BALOG, KIPLING										
3A	7	4	Exeter	40.1	118	38	5.5	27	3 Fd.	—
			Eagle	35.5	115	37	9.0	29	2 Fd.	—
			Rodney	38.8	115	36	2.0	34	1 Fd.	G.
			Garry	41.6	119	37	2.0	32	2 Fd.	—
No significant grain yield difference between varieties.										
R. JAMES HOOD, WOLSELEY										
3A	7	7	Exeter	63.7	100	36	3.0	31	2 Fd.	—
			Eagle	36.3	96	34	7.0	25	3 Fd.	—
			Rodney	68.7	98	42	2.0	37	1 Fd.	G.
			Garry	67.6	100	46	2.0	38	1 Fd.	G.
Necessary difference—7.4 bushels.										
ALBERT A. PETRACEK, LANGENBURG										
3B	7	9	Exeter	57.4	98	39	4.3	34	1 Fd.	G.
			Eagle	40.8	97	37	5.8	28	2 Fd.	—
			Rodney	56.7	99	41	1.8	37	1 Fd.	G.
			Garry	52.5	95	39	2.3	36	1 Fd.	G.
Necessary difference—7.3 bushels.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3A	7	6	Phillip K. Lowenberg, Windthorst.							
[redacted]	7	11	J. Donald Wild, Melville.							

WHEAT POOL DISTRICT 8

ANDY ZRUDLO, WROXTON										
3B	8	1	Exeter	65.5	—	—	—	31	2 Fd.	—
			Eagle	42.6	—	—	—	25	3 Fd.	—
			Rodney	96.6	—	—	—	37	1 Fd.	G.
			Garry	79.6	—	—	—	34	1 Fd.	G.
Necessary difference—12.1 bushels.										
RICHARD W. ROUSAY, YORKTON										
3C	8	4	Exeter	61.3	—	—	—	32	2 Fd.	—
			Eagle	36.4	—	—	—	25	3 Fd.	—
			Rodney	40.7	—	—	—	35	1 Fd.	W.
			Garry	—	—	—	—	—	—	—
OT-139 destroyed—Yields not included in zone summary.										
ALEX GELETCHUK, RAMA										
3C	8	7	Exeter	66.3	104	47	4.8	32	2 Fd.	—
			Eagle	59.0	104	47	4.8	34	1 Fd.	F.
			Rodney	59.8	104	47	3.3	39	1 Fd.	—
			Garry	59.4	104	46	4.5	39	1 Fd.	F.
No significant grain yield difference between varieties.										

Wheat Pool District 8—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
BEVERLY FIALA, HYAS										
3B	8	9	Exeter	96.5	94	43	—	36	3 CW	G.
			Eagle	85.7	93	43	—	34	3 CW	—
			Rodney	101.8	92	42	—	37	3 CW	W.
			Garry	88.2	91	42	—	37	3 CW	W.
No significant grain yield difference between varieties.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3B	8	2	Florance M. Legge, Saltcoats.							
3C	8	3	Forrest G. Roemer, Melville.							
3B	8	5	Marcel Berndt, Verigin.							

WHEAT POOL DISTRICT 9

WALTER HOLOWATUIK, HUBBARD										
3C	9	1	Exeter	74.8	108	46	—	27	3 Fd.	—
			Eagle	60.0	107	48	—	23	3 Fd.	—
			Rodney	65.1	107	49	—	29	3 Fd.	—
			Garry	65.8	109	45	—	31	3 Fd.	—
Test damaged by birds—Yields not included in zone summary.										
ALLAN H. JOHNSON, BULYEA										
2B	9	4	Exeter	67.7	—	36	1.8	39	1 Fd.	G.
			Eagle	57.4	—	32	1.5	38	1 Fd.	G.
			Rodney	68.5	—	35	2.8	40	1 Fd.	G.
			Garry	64.1	—	34	1.3	37	2 CW	—
No significant grain yield difference between varieties.										
ROBERT K. HAMILTON, LEROY										
3C	9	8	Exeter	54.0	—	—	—	37	2 CW	—
			Eagle	37.0	—	—	—	34	3 CW	—
			Rodney	25.1	—	—	—	34	1 Fd.	D.
			Garry	41.9	—	—	—	37	2 CW	—
Test damaged by flooding—Yields not included in zone summary.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3C	9	3	Gaspar Orban, Punnichy.							
2B	9	6	Ronald L. Morningstar, Lockwood.							

WHEAT POOL DISTRICT 10

NORMAN J. POUND, CRAIK										
2B	10	1	Exeter	101.6	104	42	2.0	39	2 CW	G.
			Eagle	78.1	101	39	7.0	32	2 Fd.	—
			Rodney	99.4	102	38	2.8	39	2 CW	G.
			Garry	88.9	101	40	1.0	38	2CW	G.
Necessary difference—7.1 bushels.										
THOMAS G. CLARKE, DINSMORE										
1A	10	4	Exeter	61.2	—	32	3.0	38	1 CW	—
			Eagle	59.0	—	32	3.0	36	2 CW	—
			Rodney	60.2	—	32	3.0	41	1 CW	—
			Garry	56.1	—	32	3.0	37	1 Fd.	G.
No significant grain yield difference between varieties.										
MARVIN L. BARTON, BOUNTY										
2B	10	5	Exeter	73.7	—	—	—	37	1 Fd.	—
			Eagle	77.9	—	—	—	36	1 Fd.	—
			Rodney	64.3	—	—	—	37	1 Fd.	—
			Garry	73.8	—	—	—	36	1 Fd.	
No significant grain yield difference between varieties.										
G. RONALD HEINRICH, DAVIDSON										
2B	10	7	Exeter	63.2	122	31	5.5	37	1 Fd.	G.
			Eagle	62.9	123	31	5.0	35	1 Fd.	—
			Rodney	68.7	122	34	5.0	39	1 Fd.	G.
			Garry	67.6	121	39	4.0	37	1 Fd.	G.
No significant grain yield difference between varieties.										
RONALD P. WESTBY, RENOWN										
2B	10	8	Exeter	115.3	—	—	—	33	2 Fd.	—
			Eagle	113.5	—	—	—	34	1 Fd.	D.
			Rodney	112.5	—	—	—	38	1 Fd.	D.
			Garry	109.9	—	—	—	35	1 Fd.	D.
No significant grain yield difference between varieties.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2B	10	9	Christopher W. Sarich, Bladworth.							

WHEAT POOL DISTRICT 11

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
F. ROY SHIPLEY, MANTARIO										
1D	11	4	Exeter	75.0	101	29	4.3	41	1 CW	—
			Eagle	81.5	100	28	4.0	39	1 CW	—
			Rodney	61.7	100	29	4.0	39	1 CW	—
			Garry	77.7	98	30	2.8	40	1 CW	—
Necessary difference—6.4 bushels.										
RONALD C. HAY, ROSETOWN										
1D	11	7	Exeter	73.1	106	36	1.3	37	3 CW	G.
			Eagle	81.0	106	36	1.0	37	3 CW	I..
			Rodney	80.5	105	37	1.0	38	3 CW	G., I.
			Garry	78.0	105	36	1.0	36	3 CW	I.
No significant grain yield difference between varieties.										
HUGHIE HAWKINS & ROGER GOLDSMITH, HOOSIER										
1D	11	10	Exeter	71.8	—	26	—	40	1 CW	—
			Eagle	74.9	—	30	—	37	2 CW	—
			Rodney	66.8	—	29	—	40	2 CW	D.
			Garry	71.9	—	27	—	39	1 CW	—
No significant grain yield difference between varieties.										

WHEAT POOL DISTRICT 12

PAULINE A. KOBELSKY, WOLFE										
1D	12	3	Exeter	24.0	—	—	—	35	1 Fd.	G.
			Eagle	27.8	—	—	—	32	2 Fd.	—
			Rodney	18.8	—	—	—	26	3 Fd.	—
			Garry	27.2	—	—	—	38	1 Fd.	G.
Test damaged by livestock—Yields not included in zone summary.										
VALENTINE G. REITER, LUSELAND										
2D	12	4	Exeter	62.9	125	31	6.0	37	1 Fd.	W.
			Eagle	58.4	125	33	8.0	35	1 Fd.	D.
			Rodney	54.8	122	24	2.0	38	1 Fd.	W.
			Garry	45.7	122	27	5.0	36	1 Fd.	D.
Necessary difference—8.8 bushels.										
LLOYD B. MAY, REWARD										
2D	12	5	Exeter	84.2	—	—	—	39	1 Fd.	G.
			Eagle	82.0	—	—	—	39	1 Fd.	G.
			Rodney	64.3	—	—	—	41	1 Fd.	G.
			Garry	64.5	—	—	—	39	1 Fd.	G.
Necessary difference—8.0 bushels.										
ERWIN L. BOULTON, BATTLEFORD										
3G	12	10	Exeter	87.3	111	38	3.0	40	1 CW	—
			Eagle	88.9	112	39	3.3	39	1 CW	—
			Rodney	74.4	111	38	2.0	41	1 CW	—
			Garry	85.8	110	38	1.5	37	2.CW	—
No significant grain yield difference between varieties.										

WHEAT POOL DISTRICT 13

GORDON N. LIBKE, DUNDURN										
2B	13	3	Exeter	47.8	—	44	4.0	37	1 Fd.	W.
			Eagle	42.3	—	43	3.8	35	1 Fd.	W.
			Rodney	51.4	—	44	2.5	37	1 Fd.	W.
			Garry	36.8	—	44	2.5	36	1 Fd.	W.
[illegible]o significant grain yield difference between varieties.										
ARTHUR J. CALLAGHAN, BLUCHER										
2B	13	4	Exeter	46.3	—	—	—	29	2 Fd.	—
			Eagle	27.5	—	—	—	27	3 Fd.	—
			Rodney	37.2	—	—	—	35	3 CW	—
			Garry	47.4	—	—	—	35	3 CW	—
Necessary difference—5.9 bushels.										
STEVE SEDELNIK, STRUAN										
3G	13	7	Exeter	36.9	119	35	4.8	38	1 Fd.	G.
			Eagle	36.9	117	35	2.8	36	1 Fd.	G.
			Rodney	23.1	121	33	3.3	36	1 Fd.	G.
			Garry	29.6	119	35	3.5	36	1 Fd.	G.
Necessary difference—4.1 bushels.										
GEORGIE D. GALAMBOS, REYNAUD										
3C	13	10	Exeter	91.4	109	38	3.8	38	3 CW	G.
			Eagle	72.3	111	37	4.0	36	3 CW	G.
			Rodney	61.9	104	36	1.0	40	3 CW	G.
			Garry	72.4	108	37	2.0	37	3 CW	G.
Necessary difference—4.8 bushels.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3C	13	9	George Hunter, Wakaw.							

WHEAT POOL DISTRICT 14

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MILES PRITCHARD, RUNCIMAN										
3F	14	10	Exeter	54.1	—	44	—	23	3 Fd.	—
			Eagle	28.0	—	37	—	27	3 Fd.	—
			Rodney	51.9	—	36	—	26	3 Fd.	—
			Garry	66.4	—	38	—	27	3 Fd.	—
Necessary difference—12.0 bushels.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3C	14	3	Donald O. Wittig, Watson.							
4A	14	5	Alan Gleeson, Kinloch.							

WHEAT POOL DISTRICT 15

MAURICE LARSON, HAGEN										
3D	15	2	Exeter	63.9	—	—	—	32	2 Fd.	—
			Eagle	68.7	—	—	—	34	3 CW	—
			Rodney	74.6	—	—	—	35	3 CW	—
			Garry	70.8	—	—	—	31	2 Fd.	—
No significant grain yield difference between varieties.										
LYLE A. GODIN, SHIPMAN										
3J	15	11	Exeter	77.0	110	43	7.0	33	2 Fd.	—
			Eagle	75.1	115	42	5.8	31	2 Fd.	—
			Rodney	45.5	116	41	3.0	29	2 Fd.	—
			Garry	62.2	111	42	5.0	30	2 Fd.	—
Necessary difference—11.7 bushels.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
4B	15	6	Donald M. Field, Shell Lake.							
4B	15	7	Laurence Collins, Ormeaux.							
4B	15	9	Floyd A. Crowley, Northside.							
3J	15	3	Stanford Bissky, Prince Albert.							

WHEAT POOL DISTRICT 16

ROBERT P. PHILLIPS, RICHARD										
3G	16	2	Exeter	86.9	118	36	2.0	36	1 Fd.	G.
			Eagle	92.3	118	36	2.0	36	1 Fd.	G.
			Rodney	87.0	117	37	1.0	38	1 Fd.	G.
			Garry	77.0	117	36	2.8	37	1 Fd.	G.
No significant grain yield difference between varieties.										
JOAN M. WOODWARD, BATTLEFORD										
3G	16	3	Exeter	32.1	100	36	—	36	3 CW	—
			Eagle	27.9	100	36	—	34	3 CW	—
			Rodney	24.3	100	35	—	36	1 Fd.	G.
			Garry	33.9	100	35	—	35	3 CW	—
No significant grain yield difference between varieties.										
JAMES W. TOWNLEY-SMITH, LASHBURN										
3E	16	6	Exeter	74.5	—	—	—	38	1 CW	—
			Eagle	73.7	—	—	—	37	2 CW	—
			Rodney	62.4	—	—	—	40	1 CW	—
			Garry	54.2	—	—	—	38	1 CW	—
Necessary difference—10.9 bushels.										
DAVID J. RUNDBERG, SPRUCE LAKE										
4B	16	8	Exeter	25.7	—	28	7.8	34	1 Fd.	G.
			Eagle	29.3	—	29	8.5	32	2 Fd.	—
			Rodney	28.1	—	27	9.0	34	1 Fd.	G.
			Garry	18.9	—	28	8.5	34	1 Fd.	G.
Test damaged by hail—Yields not included in zone summaries.										
RICHARD HUTTER, GOODSOIL										
3H	16	11	Exeter	114.8	110	47	7.3	39	1 Fd.	G.
			Eagle	110.1	111	47	4.8	38	1 Fd.	G.
			Rodney	107.6	107	46	3.5	40	1 Fd.	G.
			Garry	96.0	106	47	2.3	40	1 Fd.	G.
Necessary difference—6.6 bushels.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3E	16	5	Harvey J. Garrett, Paynton.							
4B	16	10	Donald M. Page, Mullingar.							

BARLEY TESTS

A total of 80 barley tests were seeded in 1954. The varieties tested were Husky, Vantmore, Vantage, Compana, Wolfe and Balder. Of these six varieties, Husky and Vantmore were grown in tests throughout the province. Vantage and Compana were tested in the south, west and west-central regions. This region normally includes Cereal Variety Zones 2A and 2E,* but for the purposes of this year's tests these two zones were included in the parkland region. This was done because they normally are subject to rust as are a number of the zones in the parkland region. In the east, north and north-east region (Cereal Variety Zones 3A to 4B),* as well as in Zones 2A and 2E, Vantage and Compana were replaced by the varieties Wolfe and Balder.

DESCRIPTION OF VARIETIES

NOTE—For a report on official recommendations and yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" on page 64.

Husky is a six-rowed, medium late, medium strong strawed feed variety which has yielded well over a large area of the province. It is resistant to stem rust and moderately resistant to covered smut, but moderately susceptible to leaf rust and susceptible to loose smut. Although a fairly new variety, Husky has already proved adaptable to a considerable range of growing conditions and is now officially recommended in eleven cereal variety zones in Saskatchewan, chiefly in the parkland region. Husky was developed at the University of Saskatchewan.

Vantmore was grown in Wheat Pool tests under the code number B-597. It is a six-rowed, semi-smooth awned feed variety developed at the Brandon Experimental Farm. Vantmore is mid-late in maturity, equal to Vantage in straw length and strength, but is higher yielding than Vantage under good moisture conditions. It is resistant to stem rust and moderately resistant to smuts and rootrot, but susceptible to leaf rust and net blotch.

Vantage is a six-rowed, medium late, medium strong strawed feed barley developed at the Brandon Experimental Farm and introduced for commercial distribution in 1948. It is resistant to stem rust but susceptible to leaf rust and the smuts. Vantage has yielded well on the open plains but usually is outyielded by Husky in the parkland region of the province.

Compana is a two-rowed, smooth awned early maturing feed variety produced by the Montana Agricultural Experiment Station in 1941. It has short, weak straw, but is quite drought resistant. Compana is susceptible to stem and leaf rust and to loose and covered smut. Because of its large plump seeds, this variety is useful for pearling.

Wolfe was grown in Wheat Pool tests under the code number L-4752. It is a six-rowed, smooth awned feed variety which is earlier in maturity than Vantage, and has medium-strong straw. It is susceptible to rusts and smuts. Wolfe was developed at the Central Experimental Farm, Ottawa, and the Lacombe Experimental Station. It was licensed in 1954.

Balder is a Swedish variety which is not licensed in Canada. It is a late maturing, two-rowed variety, which has mid-short, mid-strong straw. Balder is susceptible to rusts and smuts.

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*—See Cereal Variety Zone Map, page 41.

HISTOGRAMS SHOWING BARLEY YIELDS BY CEREAL VARIETY ZONES

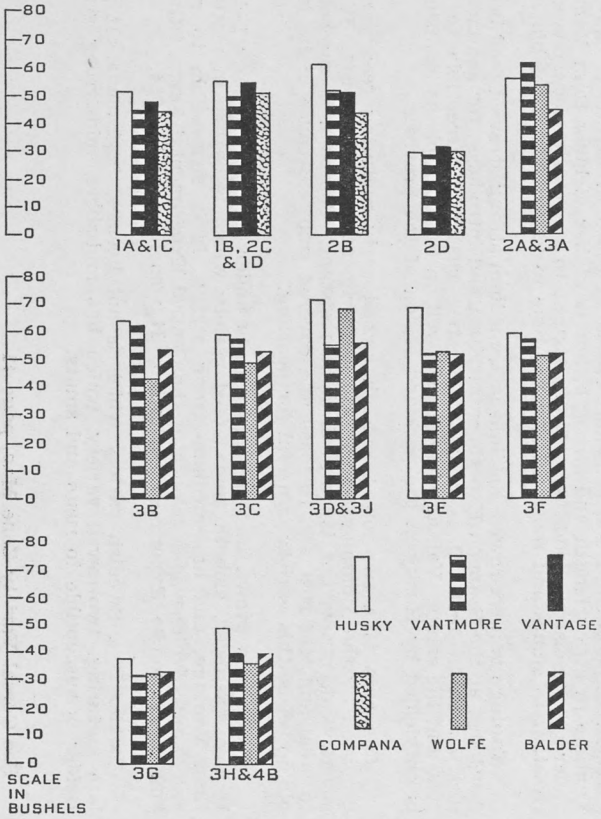




Table No. 44—Average Yields in Bushels Per Acre Summarized by Cereal Variety Zones

Cereal** Variety Zone	No. of Satisfactory Tests	Husky	Vantmore	Vantage	Compana	Wolfe	Balder	Necessary Difference* in bushels
1A & 1C	4	51.7	44.6	47.5	44.2	—	—	7.41
1B, 2C & 1D	5	55.1	49.5	54.5	50.5	—	—	N.S.
2B	8	61.0	51.7	51.3	43.6	—	—	6.55
2D	3	29.5	28.8	31.9	30.1	—	—	N.S.
2A & 3A	4	55.5	61.1	—	—	53.2	44.9	9.97
3B	3	64.0	62.0	—	—	42.9	53.6	12.42
3C	8	58.7	56.9	—	—	48.5	52.1	5.76
3D & 3J	2	70.3	54.5	—	—	67.5	55.1	N.S.
3E	2	67.9	51.4	—	—	51.9	50.8	8.03
3F	2	58.2	56.0	—	—	50.1	51.1	N.S.
3G	5	37.1	31.2	—	—	31.5	31.6	N.S.
3H & 4B	2	48.7	39.4	—	—	35.7	39.1	12.75

* **Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of these differences. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over another in that particular zone group.
N.S.—No significant grain yield difference between varieties.
Note—There were no successful tests conducted in zones 2E and 4A.
** See zone map, page 41.

Table No. 44. Zones 1A to 2D (except 2A). In three of these four zone groups **Husky** outyielded the other varieties tested in 1954. In Zone 2D it placed third. This record, when combined with its performance in the parkland region, demonstrates the wide adaptability of this variety. Since its introduction in 1952, Husky has yielded well over a large part of this province.

On an average basis **Vantage** placed second in these zones. It was first in yield in Zone 2D, third in Zone 2B and second in the other two zone groups. Over a period of years this variety has performed well in the open prairie region and it is officially recommended in five of these zones.

Vantmore ranked third in yield on an average basis and placed second in Zone 2B. This variety was included in Wheat Pool tests for the first time in 1954, and further testing is required before official recommendations can be made. Yield results to date seem to indicate that it will not replace Vantage on the open plains of Saskatchewan or Husky in the parkland region.

Compana was generally outyielded by the other varieties tested in 1954, although it placed second in Zone 2D. This variety usually performs well under drought conditions and during recent years has been readily marketable due to the demand for it in the export market.

Zones 3A to 4B (including 2A). In these zones **Husky** has repeatedly given an outstanding performance. It placed first in yield in seven of the eight zone groups and placed second in the remaining one. **Vantmore** placed second on an average basis. It placed first in one zone group and fourth in two. As mentioned above, this variety has been tested by the Wheat Pool for only one year and no conclusive evidence is available yet regarding its yielding ability. **Wolfe** also has been included in these tests for only one year. It is early maturing but did not produce outstanding yields under the conditions which prevailed in 1954. Further testing will be required before reliable recommendations can be made. **Balder** was outyielded by the other three varieties on an average basis, although in Zone 3G it placed second.

Table No. 45—Average Number of Days From Seeding to Ripening Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Vantmore	Vantage	Compana	Wolfe	Balder
1A & 1C	97.7	95.3	96.0	91.0	—	—
1B, 2C & 1D	98.4	96.6	95.8	92.0	—	—
2B	106.0	101.5	103.4	95.5	—	—
2D	100.5	100.0	98.0	95.0	—	—
2A & 3A	94.0	91.0	—	—	81.3	96.7
3B	92.5	91.5	—	—	87.5	97.5
3C	101.8	98.9	—	—	95.6	104.6
3D & 3J	109.0	101.0	—	—	99.5	108.0
3E	105.5	105.5	—	—	94.5	106.5
3F	110.5	109.0	—	—	97.5	116.5
3G	101.0	100.4	—	—	95.4	107.2
3H & 4B	111.5	108.0	—	—	101.5	110.5

Table No. 45. Zones 1A to 2D (except 2A). **Compana** matured earlier than the other varieties tested in all zones. **Vantage** and **Vantmore** were nearly equal on an average basis and **Husky** was the latest to mature.

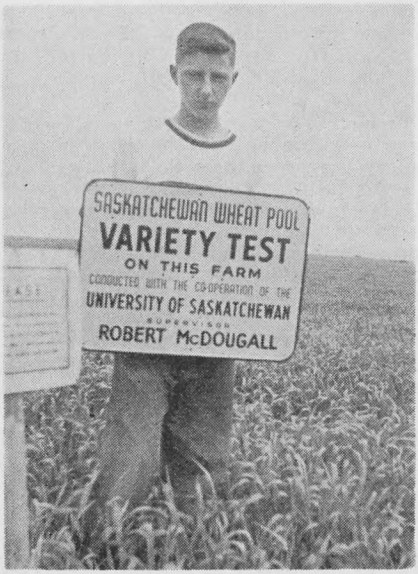
Zones 3A to 4B (including 2A). In each of these zones **Wolfe** matured earlier than the other three varieties tested. **Vantmore** placed second in all zones. **Husky** placed third in five zone groups and in two others it was the latest maturing variety. **Balder** was generally later than the other three.

Table No. 46—Average Height of Plants in Inches Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Vantmore	Vantage	Compana	Wolfe	Balder
1A & 1C	22.6	23.2	24.0	20.4	—	—
1B, 2C & 1D	29.8	30.4	30.6	25.4	—	—
2B	32.0	30.9	30.4	24.6	—	—
2D	27.5	25.5	26.5	21.0	—	—
2A & 3A	35.0	33.5	—	—	31.8	29.8
3B	31.7	31.0	—	—	29.3	25.7
3C	30.8	29.8	—	—	29.8	27.1
3D & 3J	39.3	37.3	—	—	32.0	31.7
3E	33.0	31.5	—	—	29.5	25.5
3F	30.7	30.3	—	—	29.3	29.7
3G	26.6	26.8	—	—	25.2	21.2
3H & 4B	28.0	27.7	—	—	26.3	22.3

Table No. 46. Zones 1A to 2D (except 2A). In two of these four zone groups **Husky** exceeded the other varieties in height. **Vantmore** was second in three zone groups. **Vantage** placed first in two, second in one and third in the remaining one. **Compana** was shorter than the other varieties in all these zones.

Zones 3A to 4B (including 2A). **Husky** was the tallest of the varieties tested in all but one zone and it was followed by **Vantmore. Wolfe** placed third in most zones and **Balder** was exceeded in height by the other three varieties in six of the eight zones.



Robert McDougall of Aylesbury inspecting his barley test early in the season.

Table No. 47—Average Straw Strength of Plants On the Basis 1 (Strong), 9 (Weak) Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Vantmore	Vantage	Compana	Wolfe	Balder
1A & 1C	2.1	2.4	2.1	4.2	—	—
1B, 2C & 1D	2.2	1.6	1.8	2.7	—	—
2B	2.0	1.7	2.2	4.6	—	—
2D	1.5	2.5	2.0	6.0	—	—
2A & 3A	2.4	2.3	—	—	3.3	3.1
3B	3.2	1.1	—	—	2.7	2.3
3C	2.9	3.6	—	—	3.8	3.5
3D & 3J	2.9	4.2	—	—	5.7	5.0
3E	2.8	2.5	—	—	2.6	2.9
3F	4.9	4.1	—	—	5.8	4.6
3G	2.3	2.5	—	—	2.3	3.7
3H & 4B	5.0	3.3	—	—	4.4	3.3

Table No. 47. Zones 1A to 2D (except 2A). In general, there was little difference in the straw strength of the varieties **Husky, Vantage** and **Vantmore.** However, **Compana** was somewhat weaker than the others.

Zones 3A to 4B (including 2A). **Vantmore** was superior in straw strength, placing first or second in all but one of the zones. **Husky** placed second on an average basis, followed by **Balder. Wolfe,** although it did not show serious straw weakness, placed fourth in four of the zone groups.

Table No. 48—Average Neck Strength of Plants Basis 1 (Strong), 2 (Medium), 3 (Weak) Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Vantmore	Vantage	Compana	Wolfe	Balder
1A & 1C	2.2	1.9	1.9	2.0	—	—
1B, 2C & 1D	1.8	1.3	1.5	2.6	—	—
2B	2.0	1.3	1.7	2.0	—	—
2D	1.2	1.8	1.5	2.4	—	—
2A & 3A	1.8	1.8	—	—	1.8	1.7
3B	2.0	1.1	—	—	1.7	2.4
3C	1.5	1.7	—	—	1.6	2.1
3D & 3J	1.7	1.3	—	—	1.0	2.3
3E	1.9	1.3	—	—	1.2	2.7
3F	2.3	2.0	—	—	2.4	2.2
3G	1.6	1.3	—	—	1.3	2.3
3H & 4B	1.7	1.3	—	—	1.7	2.0

Table No. 48. Zones 1A to 2D (except 2A). In three of these four zone groups **Vantmore** rated first in neck strength. **Vantage** placed second in three zone groups and first in the remaining one. **Husky** placed third in three zone groups but it was first in Zone 2D. **Compana** showed generally lower neck strength than the other three varieties.

Zones 3A to 4B (including 2A). In these zones **Vantmore** exceeded the other varieties in neck strength. **Husky** and **Wolfe** were nearly equal in most cases, and **Balder** showed generally lower neck strength.

Table No. 49—Average Weight Per Measured Bushel Summarized by Cereal Variety Zones

Cereal Variety Zones	Husky	Vantmore	Vantage	Compana	Wolfe	Balder
1A & 1C	47.4	44.2	47.4	47.6	—	—
1B, 2C & 1D	46.5	44.8	45.7	46.0	—	—
2B	47.4	45.0	46.4	45.7	—	—
2D	43.3	41.3	42.7	43.3	—	—
2A & 3A	46.8	45.3	—	—	44.3	48.5
3B	49.0	47.7	—	—	47.3	50.0
3C	45.5	44.3	—	—	45.5	46.7
3D & 3J	44.3	45.0	—	—	46.0	46.7
3E	41.5	38.5	—	—	42.0	46.0
3F	41.7	42.7	—	—	42.3	45.0
3G	43.2	41.4	—	—	45.2	45.8
3H & 4B	44.0	43.0	—	—	44.3	45.7

Table No. 49. Zones 1A to 2D (except 2A). In these zones **Husky** showed generally higher bushel weight than the other varieties. **Compana** was slightly lower than Husky in two zone groups and equalled it in Zone 2D. **Vantage** placed third on an average basis and **Vantmore** had the lowest bushel weight in all these zones.

Zones 3A to 4B (including 2A). In each of these zones **Balder** showed the highest bushel weight of the four varieties tested. **Wolfe** placed second on an average basis but in two zone groups it placed fourth. There was considerable variation in the placing of Husky from zone to zone, but on an average basis it placed third in bushel weight. **Vantmore** showed the lowest bushel weight in three and placed third in four zone groups.

Table No. 50—Commercial Grades in Percentage
(Zones 1A to 2D (except 2A)

Variety	3 C.W. 2R %	1 Feed %	2 Feed %	3 Feed %
Husky	—	75.0	16.7	8.3
Vantmore	—	37.5	45.8	16.7
Vantage	—	45.8	41.7	12.5
Compana	25.0	33.3	33.3	8.4

Zones 3A to 4B (including 2A)

Variety	2 C.W. 2R	3 C.W. 2R	1 Feed	2 Feed	3 Feed
Husky	—	—	47.1	29.4	23.5
Vantmore	—	—	29.4	41.2	29.4
Wolfe	—	—	44.1	32.4	23.5
Balder	2.9	20.6	47.1	17.6	11.8

Table No. 50. Zones 1A to 2D (except 2A). Because **Compana** is the only variety, of those tested in these zones, that is eligible for higher than feed grades, a direct comparison between it and the other varieties is not possible. However, this fact should be kept in mind as a partial compensation for Compana's lower yielding ability in most zones. Of the remaining varieties **Husky** graded well with 75% being included in 1 Feed. **Vantage** graded somewhat lower with 45.8% in this grade. **Vantmore** graded the lowest of these four varieties.

Zones 3A to 4B (including 2A). **Balder** is not yet licensed for commercial distribution in Canada so no grading standard has been officially established for it. However, for purposes of this report it was assumed to be eligible for the top two-row grades. Because of this it is not directly comparable to the three feed varieties in these zones. **Husky** and **Wolfe** were almost equal in grading ability, but **Vantmore** was somewhat lower.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Table No. 51—Summarized Results for Zone Group 1A and 1C
(4 satisfactory tests)

	Husky	Vantmore	Vantage	Compana
Yield in bushels per acre	51.7	44.6	47.5	44.2
Days from seeding to ripening	97.7	95.3	96.0	91.0
Plant height in inches	22.6	23.2	24.0	20.4
Straw strength (maximum of 1)	2.1	2.4	2.1	4.2
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.2	1.9	1.9	2.0
Bushel weight in pounds	47.4	44.2	47.4	47.6
Commercial grades in percentage: 3 C .W.2R	—	—	—	40.0
1 Feed	80.0	40.0	40.0	60.0
2 Feed	20.0	40.0	60.0	—
3 Feed	—	20.0	—	—

Necessary difference—7.4 bushels.

Table No. 51. **Husky** outyielded the other varieties in this zone group in 1954, although the difference was significant only in the case of Compana. Husky placed first in yield in Zone 1A during 1952 but was outyielded by Vantage in 1953. It requires further testing in this area.

Vantage placed second in 1954 and has yielded well in these zones in previous years. It is officially recommended in Zone 1A.

Vantmore placed third in yield in 1954, but has not been tested sufficiently for accurate recommendations to be made.

Compana was outyielded by the other varieties tested in 1954. However, on the basis of its past performance it is officially recommended for Zone 1C. It is valuable in this zone because of its drought resistance.

In addition to the varieties mentioned above, Titan is officially recommended for both Zone 1A and 1C.

Table No. 52—Summarized Results for Zone Group 1B, 2C and 1D

(5 satisfactory tests)

	Husky	Vantmore	Vantage	Compana
Yield in bushels per acre	55.1	49.5	54.5	50.5
Days from seeding to ripening	98.4	96.6	95.8	92.0
Plant height in inches	29.8	30.4	30.6	25.4
Straw strength (maximum of 1)	2.2	1.6	1.8	2.7
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.8	1.3	1.5	2.6
Bushel weight in pounds	46.5	44.8	45.7	46.0
Commercial grades in percentage: 3 C.W. 2R	—	—	—	33.3
1 Feed	83.3	—	50.0	33.3
2 Feed	—	66.7	33.3	16.7
3 Feed	16.7	33.3	16.7	16.7

No significant grain yield difference between varieties.

Table No. 52. In this zone group **Husky** placed first in yield in 1954, although in no case was the difference significant. Because these zones are frequently subject to lack of moisture, drought resistant varieties are given preference in official recommendations. Husky should be tested further in this area.

Vantage placed second in yield in the year under review. It yielded well in 1953 as well and is officially recommended for Zones 1D and 2C.

Compana placed third in yield in this zone group. This was its first year of testing by the Wheat Pool since 1945. It is not officially recommended for any of these zones.

Vantmore was outyielded by the other varieties in this zone group, in its first year of testing. Further yield results will be required before reliable recommendations can be made.

The early maturing, drought resistant variety Titan is officially recommended for Zone 1B. Vantage and Velvon 11 are recommended for Zone 1D and Titan and Vantage for Zone 2C.

Table No. 53—Summarized Results for Zone Group 2A and 3A

(4 satisfactory tests)

	Husky	Vantmore	Wolfe	Balder
Yield in bushels per acre	55.5	61.1	53.2	44.9
Days from seeding to ripening	94.0	91.0	81.3	96.7
Plant height in inches	35.0	33.5	31.8	29.8
Straw strength (maximum of 1)	2.4	2.3	3.3	3.1
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	1.8	1.8	1.8	1.7
Bushel weight in pounds	46.8	45.3	44.3	48.5
Commercial grades in percentage: 3 C.W. 2R	—	—	—	50.0
1 Feed	75.0	25.0	25.0	50.0
2 Feed	25.0	50.0	50.0	—
3 Feed	—	25.0	25.0	—

Necessary difference—10.0 bushels.

Table No. 53. **Vantmore** outyielded the other varieties tested in this zone group in 1954. However, insufficient testing has been done to accurately predict its performance under varying conditions and it is not recommended.

Husky placed second in yield in 1954. It placed first in Zone 3A in the previous year, and it is officially recommended for both these zones.

Wolfe placed third in yield in this year and will require further testing. Wolfe was considerably earlier than the other varieties.

Balder was outyielded by the other varieties tested and produced relatively low yields in 1953. It is not recommended.

In addition to the varieties mentioned above, Velvon 11 is officially recommended for both these zones and Titan is recommended for Zone 2A.

Table No. 54—Summarized Results for Zone 2B

(8 satisfactory tests)

	Husky	Vantmore	Vantage	Compana
Yield in bushels per acre	61.0	51.7	51.3	43.6
Days from seeding to ripening	106.0	101.5	103.4	95.5
Plant height in inches	32.0	30.9	30.4	24.6
Straw strength (maximum of 1)	2.0	1.7	2.2	4.6
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	2.0	1.3	1.7	2.0
Bushel weight in pounds	47.4	45.0	46.4	45.7
Commercial grades in percentage: 3 C.W. 2R	—	—	—	20.0
1 Feed	80.0	50.0	60.0	30.0
2 Feed	20.0	40.0	30.0	50.0
3 Feed	—	10.0	10.0	—

Necessary difference—6.6 bushels.

Table No. 54. **Husky** significantly outyielded the other varieties tested in this zone in 1954. It is officially recommended.

Vantmore placed second in yield but requires further testing to determine its yielding ability under varying conditions. Indications are that it is less drought resistant than Vantage, which may limit its use in this zone.

Vantage placed third in yield in 1954, but placed first in 1953 and second in 1952. It is officially recommended for Zone 2B.

Compana was significantly outyielded by all the other varieties tested in 1954 and is not recommended for this zone.

Table No. 55—Summarized Results for Zone 2D

(3 satisfactory tests)

	Husky	Vantmore	Vantage	Compana
Yield in bushels per acre	29.5	28.8	31.9	30.1
Days from seeding so ripening	100.5	100.0	98.0	95.0
Plant height in inches	27.5	25.5	26.5	21.0
Straw strength (maximum of 1)	1.5	2.5	2.0	6.0
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	1.2	1.8	1.5	2.4
Bushel weight in pounds	43.3	41.3	42.7	43.3
Commercial grades in percentage: 1 Feed	33.4	—	—	—
2 Feed	33.3	33.3	66.7	66.7
3 Feed	33.3	66.7	33.3	33.3

No significant grain yield difference between varieties.

Table No. 55. **Vantage** outyielded the other varieties in this zone, but in no case was the difference significant. It performed well in the two previous years and is officially recommended.

Compana yielded well under the conditions which prevailed in 1954, but its past performance has not been outstanding in this zone.

Husky placed third in yield in 1954 and was top yielder in 1953. It is officially recommended for Zone 2D.

Vantmore was outyielded by the other varieties tested in 1954.

In addition to the varieties mentioned above, Velvon 11 is officially recommended for this zone.

Cereal Variety Zone 2E

No successful barley tests were conducted in this zone in 1954. Vantage is the only variety officially recommended for this zone.

Cereal Variety Zone 3A

Only two satisfactory tests were conducted in this zone and for analysis purposes they were combined with Zone 2A, which is discussed on page 65. Results of the individual tests are shown in the table "Results of Individual Tests—Barley" under District 1, Subdistrict 2, conducted by Eddie R. Nielsen of Redvers and under District 7, Subdistrict 6, conducted by Joe Czerwonka of Candiac. Husky, Vantage and Velvon 11 are officially recommended for Zone 3A.

Table No. 56—Summarized Results for Zone 3B

(3 satisfactory tests)

	Husky	Vantmore	Wolfe	Balder
Yield in bushels per acre	64.0	62.0	42.9	53.6
Days from seeding to ripening	92.5	91.5	87.5	97.5
Plant height in inches	31.7	31.0	29.3	25.7
Straw strength (maximum of 1)	3.2	1.1	2.7	2.3
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	2.0	1.1	1.7	2.4
Bushel weight in pounds	49.0	47.7	47.3	50.0
Commercial grades in percentage: 2 C.W. 2R	—	—	—	33.3
1 Feed	100.0	100.0	100.0	66.7

Necessary difference—12.4 bushels.

Table No. 56. **Husky** has placed first in yield in this zone for the last three years, and on the basis of this performance it is officially recommended.

Vantmore was tested by the Wheat Pool for the first time in 1954, and placed second in this zone. However, further testing will be required before it can be recommended.

Balder placed third in yield in this zone in 1954, and was second in 1953. At the present time it is not licensed for commercial distribution in Canada.

Wolfe was outyielded by the other three varieties in this zone in its first year of testing by the Wheat Pool.

In addition to the varieties mentioned above, Velvon 11 is officially recommended and Montcalm is recommended where a malting variety is desired.

Table No. 57—Summarized Results for Zone 3C

(8 satisfactory tests)

	Husky	Vantmore	Wolfe	Balder
Yield in bushels per acre	58.7	56.9	48.5	52.1
Days from seeding to ripening	101.8	98.9	95.6	104.6
Plant height in inches	30.8	29.8	29.8	27.1
Straw strength (maximum of 1)	2.9	3.6	3.8	3.5
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	1.5	1.7	1.6	2.1
Bushel weight in pounds	45.5	44.3	45.5	46.7
Commercial grades in percentage: 2 C.W. 2R	—	—	—	9.1
3 C.W. 2R	—	—	—	27.3
1 Feed	63.6	45.5	54.5	45.5
2 Feed	18.2	36.4	36.4	—
3 Feed	18.2	18.1	9.1	18.1

Necessary difference—5.8 bushels.

Table No. 57. **Husky** placed first in yield in this zone in 1954 and also in the three previous years. It is well adapted to this area of the province and is officially recommended for Zone 3C.

Vantmore placed second in this zone in its first year of testing by the Wheat Pool. It appears to be well adapted to the eastern area of the province, but insufficient testing has been done for official recommendations to be made.

Balder placed third in this zone in each of the past two years. It is not licensed and not recommended.

Wolfe was outyielded by the other three varieties tested in this zone but was the earliest in maturity.

In addition to the varieties mentioned above, Vantage is officially recommended and Montcalm is recommended where a malting variety is desired.

Table No. 58—Summarized Results for Zone Group 3D and 3J

(2 satisfactory tests)

	Husky	Vantmore	Wolfe	Balder
Yield in bushels per acre	70.3	54.5	67.5	55.1
Days from seeding to ripening	109.0	101.0	99.5	108.0
Plant height in inches	39.3	37.3	32.0	31.7
Straw strength (maximum of 1)	2.9	4.2	5.7	5.0
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	1.7	1.3	1.0	2.3
Bushel weight in pounds	44.3	45.0	46.0	46.7
Commercial grades in percentage: 1 Feed	—	33.3	33.3	66.7
2 Feed	100.0	66.7	66.7	33.3

No significant grain yield difference between varieties.

Table No. 58. **Husky** outyielded the other varieties in this zone group in 1954, but it should be noted that the differences were not statistically significant. In 1953 Husky placed second in Zone 3J and it is officially recommended for this zone, although not for Zone 3D.

Wolfe placed second in this zone group but needs further testing before it can be recommended.

Balder placed third in this zone group in 1954, but performed quite well in the previous year.

Vantmore was outyielded by the other varieties tested in this zone group in 1954.

Hannchen, Montcalm and Vantage are officially recommended for Zone 3D, and Husky, Montcalm and Vantage for Zone 3J.

Table No. 59—Summarized Results for Zone 3E

(2 satisfactory tests)

	Husky	Vantmore	Wolfe	Balder
Yield in bushels per acre	67.9	51.4	51.9	50.8
Days from seeding to ripening	105.5	105.5	94.5	106.5
Plant height in inches	33.0	31.5	29.5	25.5
Straw strength (maximum of 1)	2.8	2.5	2.6	2.9
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	1.9	1.3	1.2	2.7
Bushel weight in pounds	41.5	38.5	42.0	46.0
Commercial grades in percentage: 1 Feed	—	—	—	50.0
2 Feed	50.0	—	50.0	50.0
3 Feed	50.0	100.0	50.0	—

Necessary difference—8.0 bushels.

Table No. 59. **Husky** significantly outyielded the other three varieties in this zone, and is officially recommended. It has placed either first or second in Zone 3E during four years of testing.



George Lazurko of Willowbrook demonstrates the stand of barley in his test.

Wolfe placed second in its first year of testing, but further data will be required before it can be recommended. Its early maturity is a point in favor of Wolfe in this zone.

Vantmore placed third but it also requires further testing.

Balder was outyielded by the other varieties in 1954 and placed third in this zone in 1953.

In addition to Husky, Montcalm and Vantage are officially recommended for this zone.

Table No. 60—Summarized Results for Zone 3F

(2 satisfactory tests)

	Husky	Vantmore	Wolfe	Balder
Yield in bushels per acre	58.2	56.0	50.1	51.1
Days from seeding to ripening	110.5	109.0	97.5	116.5
Plant height in inches	30.7	30.3	29.3	29.7
Straw strength (maximum of 1)	4.9	4.1	5.8	4.6
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	2.3	2.0	2.4	2.2
Bushel weight in pounds	41.7	42.7	42.3	45.0
Commercial grades in percentage: 2 Feed	33.3	66.7	33.3	100.0
3 Feed	66.7	33.3	66.7	—

No significant grain yield difference between varieties.

Table No. 60. **Husky** placed first in yield in this zone, but it should be noted that the difference between varieties was not statistically significant. Husky performed well in this zone in the three previous years and is officially recommended.

Vantmore placed second in yield. It appears to be adapted quite well to conditions in the parkland region of Saskatchewan, but in this year at least, it was outyielded in nearly every zone by Husky.

Balder placed third in 1954, although it yielded quite well in the previous year. Balder is not licensed in Canada and is not recommended.

Wolfe was outyielded by the other varieties tested in this zone.

In addition to Husky, Hannchen, Montcalm and Vantage are officially recommended for Zone 3F.

Table No. 61—Summarized Results for Zone 3G

(5 satisfactory tests)

	Husky	Vantmore	Wolfe	Balder
Yield in bushels per acre	37.1	31.2	31.5	31.6
Days from seeding to ripening	101.0	100.4	95.4	107.2
Plant height in inches	26.6	26.8	25.2	21.2
Straw strength (maximum of 1)	2.3	2.5	2.3	3.7
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	1.6	1.3	1.3	2.3
Bushel weight in pounds	43.2	41.4	45.2	45.8
Commercial grades in percentage: 1 Feed	40.0	—	40.0	80.0
2 Feed	20.0	40.0	20.0	—
3 Feed	40.0	60.0	40.0	20.0

No significant grain yield difference between varieties.

Table No. 61. **Husky** outyielded the other varieties in this zone, although the differences were not statistically significant. In 1952 and 1953 it was outyielded in this zone by Vantage. Husky is not officially recommended for Zone 3G.

Balder placed second in this zone in 1954, although in the previous year it was low in yield. It is not recommended.

Wolfe placed third, in this first year of testing, but no recommendations can be made until further tests have been conducted.

Vantmore was outyielded by the other three varieties in this zone in 1954.

Vantage is the only variety officially recommended in Zone 3G.

Table No. 62—Summarized Results for Zone Group 3H and 4B
(2 satisfactory tests)

	Husky	Vantmore	Wolfe	Balder
Yield in bushels per acre	48.7	39.4	35.7	39.1
Days from seeding to ripening	111.5	108.0	101.5	110.5
Plant height in inches	28.0	27.7	26.3	22.3
Straw strength (maximum of 1)	5.0	3.3	4.4	3.3
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	1.7	1.3	1.7	2.0
Bushel weight in pounds	44.0	43.0	44.3	45.7
Commercial grades in percentage: 3 C.W. 2R	—	—	—	33.3
1 Feed	33.4	—	66.7	33.4
2 Feed	33.3	66.7	—	—
3 Feed	33.3	33.3	33.3	33.3

Necessary difference—12.8 bushels.

Table No. 62. **Husky** outyielded the other varieties tested in this zone group in 1954. It yielded well in two previous years' tests in Zone 4B and is officially recommended for both these zones.

Vantmore placed second in this area in 1954, but until further testing has been carried on it cannot be recommended.

Balder placed third in 1954 and placed second to Husky in the previous year in Zone 4B.

Wolfe was outyielded by the other three varieties tested.

In addition to Husky, Vantage and Velvon 11 are officially recommended for both these zones.

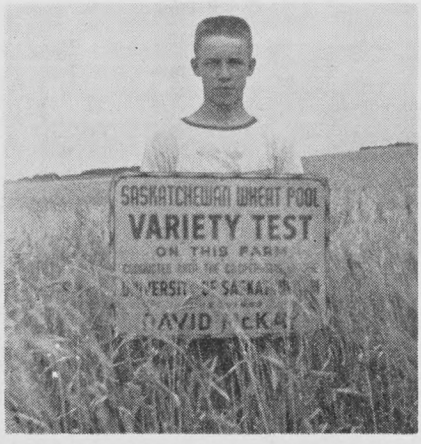
Cereal Variety Zone 3J

For analysis purposes the tests in this zone were combined with Zone 3D, which is discussed on page 68. The results of the individual tests in Zone 3J will be found in the table "Individual Summarized Results of All Tests—Barley" under District 14, Subdistrict 9, conducted by Gerald I. Hansen of Weldon and under District 15, Subdistrict 9, conducted by Alex Denysuik of Henribourg.

Husky, Montcalm and Vantage are officially recommended for Zone 3J.

Cereal Variety Zone 4A

No successful tests were conducted in this zone in 1954. However, Vantage is officially recommended and Montcalm is recommended where a malting variety is desired.



David McKay standing between the rows of his barley test at Govan.

Table No. 63

Individual Summarized Results of All Tests—Barley

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The Zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
EDWARD R. NIELSEN, REDVERS											
3A	1	2	Husky	66.6	98	36	3.3	2.3	44	2 Fd.	—
			Vantmore	60.3	91	37	2.8	2.3	43	2 Fd.	—
			Wolfe	49.3	76	33	2.3	2.0	40	3 Fd.	—
			Balder	44.7	97	33	2.5	2.0	47	3 CW 2R	—
Necessary difference—8.0 bushels.											
A. BOYD THORSON, MACOUN											
2A	1	6	Husky	29.8	95	36	1.8	2.0	46	1 Fd.	—
			Vantmore	58.6	91	32	2.0	1.0	45	2 Fd.	—
			Wolfe	44.6	87	30	4.5	1.5	44	2 Fd.	—
			Balder	35.5	97	27	1.3	2.0	47	3 CW 2R	—
Necessary difference—4.4 bushels.											
CARMAN A. CROSSMAN, STOUGHTON											
2A	1	9	Husky	78.0	—	—	—	—	46	1 Fd.	—
			Vantmore	74.5	—	—	—	—	42	3 Fd.	—
			Wolfe	64.7	—	—	—	—	43	2 Fd.	—
			Balder	57.5	—	—	—	—	46	1 Fd.	—
Necessary difference—5.6 bushels.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
2A	1	5	Ronald R. Klatt, Benson.								
2A	1	8	R. Dale Hughes, Huntoon.								

WHEAT POOL DISTRICT 2

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ALBERT J. SALABA, ROCKGLEN											
1C	2	4	Husky	69.2	101	15	2.0	2.0	48	1 Fd.	—
			Vantmore	52.5	101	17	4.0	2.0	42	3 Fd.	—
			Vantage	61.4	101	18	2.0	2.0	43	2 Fd.	—
			Compana	44.7	89	12	6.0	1.0	46	1 Fd.	—
Necessary difference—10.6 bushels.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
1C	2	6	Harold J. Kuffner, Glentworth.								

WHEAT POOL DISTRICT 3

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
BEVERLEY R. HAMILTON, McCORD											
1C	3	1	Husky	39.9	—	—	—	—	45	2 Fd.	—
			Vantmore	42.0	—	—	—	—	43	2 Fd.	—
			Vantage	40.6	—	—	—	—	44	2 Fd.	—
			Compana	44.3	—	—	—	—	47	3 CW 2R	—
Necessary difference—2.1 bushels.											
JOHN E. ECCLES, CONSUL											
1C	3	5	Husky	19.8	—	—	—	—	51	1 Fd.	—
			Vantmore	24.4	—	—	—	—	49	1 Fd.	—
			Vantage	26.9	—	—	—	—	49	1 Fd.	—
			Compana	—	—	—	—	—	49	3 CW 2R	—
Yield of Compana not available—Yields not included in zone summary.											
W. BRIAN LITTLE, MEYRONNE											
1A	3	10	Husky	71.4	93	30	1.0	1.0	49	1 Fd.	—
			Vantmore	58.6	88	32	1.0	1.8	46	1 Fd.	—
			Vantage	60.2	90	32	1.5	1.3	46	1 Fd.	—
			Compana	64.0	87	29	1.0	1.0	49	1 Fd.	—
No significant grain yield difference between varieties.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
1C	3	4	Clifford G. Evenson, Frontier.								

WHEAT POOL DISTRICT 4

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
NORMAN EISERMAN, MAPLE CREEK											
1B.....	4	2	Husky.....	32.9	90	23	—	—	41	3 Fd.	—
			Vantmore	31.5	90	25	—	—	44	2 Fd.	—
			Vantage.....	27.4	84	25	—	—	42	3 Fd.	—
			Compana.....	21.1	84	21	—	—	44	2 Fd.	—
Necessary difference—4.8 bushels.											
GORDON N. BUSHELL, WEBB											
2C.....	4	4	Husky.....	42.8	—	—	—	—	49	1 Fd.	—
			Vantmore.....	41.1	—	—	—	—	47	1 Fd.	—
			Vantage.....	51.7	—	—	—	—	50	1 Fd.	—
			Compana.....	54.1	—	—	—	—	49	3 CW 2R	—
Necessary difference—5.3 bushels.											
ELLWOOD J. SAWBY, GOLDEN PRAIRIE											
1B.....	4	6	Husky.....	41.2	97	24	3.8	2.3	47	1 Fd.	—
			Vantmore.....	38.8	96	27	2.8	2.0	43	2 Fd.	—
			Vantage.....	49.4	93	28	3.0	2.0	43	2 Fd.	—
			Compana.....	41.3	83	24	2.0	3.0	40	3 Fd.	—
No significant grain yield difference between varieties.											
HOWARD M. HASKELL, HORSHAM											
1B.....	4	7	Husky.....	79.4	98	38	2.0	2.0	47	1 Fd.	—
			Vantmore.....	71.4	91	38	1.0	1.0	45	2 Fd.	—
			Vantage.....	73.7	96	37	1.8	1.8	46	1 Fd.	—
			Compana.....	73.8	89	32	1.3	1.3	46	1 Fd.	—
No significant grain yield difference between varieties.											

WHEAT POOL DISTRICT 5

DALE L. FOWKE, NEVILLE											
1A.....	5	3	Husky.....	9.0	—	34	3.0	2.0	48	1 Fd.	—
			Vantmore	11.1	—	31	3.0	2.0	47	1 Fd.	—
			Vantage.....	15.5	—	35	2.5	2.0	59	1 Fd.	F.
			Compana.....	25.5	—	28	7.3	3.0	49	1 Fd.	F.
Test damaged—Yields not included in zone summary.											
GERHARD R. OELKE, HODGEVILLE											
1A.....	5	5	Husky.....	26.1	—	17	2.3	3.0	47	1 Fd.	—
			Vantmore.....25.4		—	17	1.5	1.5	43	2 Fd.	—
			Vantage.....	27.9	—	17	2.3	1.8	45	2 Fd.	—
			Compana.....	23.6	—	17	2.5	2.0	47	3 CW 2R	—
No significant grain yield difference between varieties.											
GORDON V. HART, BROWNLEE											
2B.....	5	8	Husky.....	98.7	101	34	4.0	2.0	46	1 Fd.	—
			Vantmore.....	96.2	99	33	3.5	1.8	44	2 Fd.	—
			Vantage.....	92.1	101	34	4.0	2.0	45	2 Fd.	—
			Compana.....	62.1	92	25	8.0	1.0	43	2 Fd.	—
Necessary difference—17.3 bushels.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
A.....	5	10	Erick N. and Arthur H. Heschel, Calderbank.								

WHEAT POOL DISTRICT 6

ALVIN WESLOWSKI, DAVIN											
3C.....	6	2	Husky.....	50.2	105	26	2.0	1.0	48	1 Fd.	—
			Vantmore.....	52.1	106	24	4.0	2.0	46	1 Fd.	—
			Wolfe.....	34.6	104	25	2.0	1.0	45	2 Fd.	—
			Balder.....	47.3	100	20	2.0	1.0	49	2 CW 2R	—
Necessary difference—5.9 bushels.											
ARTHUR J. BLAKLEY, SINTALUTA											
3C.....	6	8	Husky.....	73.5	99	33	2.0	—	44	2 Fd.	—
			Vantmore.....	62.7	103	30	2.0	—	43	2 Fd.	—
			Wolfe.....	54.8	91	30	2.0	—	41	3 Fd.	—
			Balder.....	80.2	105	28	3.5	—	47	1 Fd.	D.
Necessary difference—11.3 bushels.											
Test discarded on account of damage by flooding, pests, hail, drought or other causes											
2E.....	6	7	William D. Heenan, Grand Coulee.								

WHEAT POOL DISTRICT 7

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
JOE CZERWONKA, CANDIAC											
3A.....	7	6	Husky.....	47.6	89	39	2.0	1.0	51	1 Fd.	—
			Vantmore.....	51.0	91	38	2.0	2.0	51	1 Fd.	—
			Wolfe.....	54.1	81	40	3.0	2.0	50	1 Fd.	—
			Balder.....	41.8	96	33	5.5	1.0	54	1 Fd.	D.
No significant grain yield difference between varieties.											
LORNE C. KNUTILLA, WAPELLA											
3C.....	7	8	Husky.....	44.8	—	32	1.8	2.0	50	1 Fd.	—
			Vantmore.....	49.3	—	31	2.0	1.8	47	1 Fd.	—
			Wolfe.....	34.0	—	32	1.8	1.0	46	1 Fd.	—
			Balder.....	37.7	—	28	2.8	1.8	50	3 CW 2R	D.
No significant grain yield difference between varieties.											
H. KLENBERG CLARKE, BINSCARTH, MAN.											
3B.....	7	9	Husky.....	74.9	83	31	2.0	2.0	51	1 Fd.	—
			Vantmore.....	64.8	81	30	1.0	1.0	48	1 Fd.	—
			Wolfe.....	40.5	87	36	6.0	3.0	48	1 Fd.	—
			Balder.....	47.0	91	26	5.0	3.0	51	1 Fd.	D.
Necessary difference—8.6 bushels.											
DENNIS S. J. TOCHER, ESTERHAZY											
3C.....	7	10	Husky.....	49.0	102	32	2.0	2.0	44	2 Fd.	—
			Vantmore.....	52.0	101	30	2.0	2.0	43	2 Fd.	—
			Wolfe.....	44.1	93	34	2.0	2.0	43	2 Fd.	—
			Balder.....	44.6	103	31	2.0	2.0	47	3 CW 2R	—
Necessary difference—4.2 bushels.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
2A.....	7	5	Eldon B. Piper, Fillmore.								

WHEAT POOL DISTRICT 8

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GEORGE E. LAZURKO, WILLOWBROOK											
3C.....	8	4	Husky.....	76.4	98	31	4.5	1.0	46	1 Fd.	—
			Vantmore.....	76.7	93	32	8.8	1.0	46	1 Fd.	—
			Wolfe.....	61.7	91	32	8.3	2.0	48	1 Fd.	—
			Balder.....	56.3	98	35	4.3	1.0	47	1 Fd.	D.
Necessary difference—9.4 bushels.											
JOHN N. SWETLESHNOFF, CANORA											
3B.....	8	6	Husky.....	42.8	—	35	2.5	2.0	46	1 Fd.	—
			Vantmore.....	44.3	—	35	1.3	1.3	46	1 Fd.	—
			Wolfe.....	40.0	—	28	1.0	1.0	47	1 Fd.	—
			Balder.....	44.0	—	29	1.0	2.3	50	2 CW 2R	—
No significant grain yield difference between varieties.											
FRANK DICK, ARRAN											
3B.....	8	10	Husky.....	74.2	—	—	—	—	50	1 Fd.	—
			Vantmore.....	76.9	—	—	—	—	49	1 Fd.	—
			Wolfe.....	48.3	—	—	—	—	47	1 Fd.	—
			Balder.....	69.7	—	—	—	—	49	1 Fd.	F.
Necessary difference—5.6 bushels.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
3B.....	8	1	Josef Gerlach, Langenburg.								
3B.....	8	2	Patrick Rooney, Saltcoats.								
3B.....	8	5	John P. Kalmakoff, Kamsack.								
3B.....	8	8	Donald W. Snodgrass, Sturgis.								
3F.....	8	11	Finlay B. McPherson, Hudson Bay.								

WHEAT POOL DISTRICT 9

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
VIOLET J. HILLIAR, ITUNA											
3C.....	9	1	Husky.....	15.6	—	36	2.0	1.0	39	3 Fd.	—
			Vantmore.....	18.0	—	34	1.3	1.0	41	3 Fd.	—
			Wolfe.....	19.2	—	36	2.0	2.0	45	2 Fd.	—
			Balder.....	11.9	—	32	1.8	2.0	41	3 Fd.	—
Necessary difference—2.4 bushels.											
ROBERT P. WALDEGGER, DYSART											
3C.....	9	2	Husky.....	67.5	108	36	2.5	1.8	48	1 Fd.	—
			Vantmore.....	77.2	100	36	2.5	1.8	46	1 Fd.	—
			Wolfe.....	76.4	92	31	4.0	1.0	48	1 Fd.	—
			Balder.....	71.2	110	33	4.0	3.0	48	1 Fd.	D.
No significant grain yield difference between varieties.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			LORNE J. FISHER, SILTON								
2B	9	4	Husky	53.7	104	33	1.0	1.3	46	1 Fd.	—
			Vantmore	47.2	100	32	1.0	1.0	44	2 Fd.	—
			Vantage	48.0	104	33	2.0	1.0	45	2 Fd.	—
			Compana	45.9	97	25	5.3	2.3	45	2 Fd.	—
No significant grain yield difference between varieties.											
			DAVID J. McKAY, GOVAN								
2B	9	5	Husky	23.7	96	38	4.5	3.0	49	1 Fd.	—
			Vantmore	39.4	96	38	2.5	2.3	48	1 Fd.	—
			Vantage	38.9	96	37	4.5	2.3	48	1 Fd.	—
			Compana	33.3	92	29	7.3	3.0	44	2 Fd.	—
Test damaged by weather—Yields not included in zone summary.											
			H. EDWARD DENMAN, RAYMORE								
3C	9	7	Husky	60.4	110	24	2.0	1.0	47	1 Fd.	—
			Vantmore	50.5	103	27	2.0	1.0	45	2 Fd.	—
			Wolfe	47.2	97	26	2.0	1.0	46	1 Fd.	—
			Balder	44.2	112	18	4.0	3.0	48	1 Fd.	G.
Necessary difference—3.6 bushels.											

WHEAT POOL DISTRICT 10

			ROBERT H. McDOUGALL, AYLESBURY								
2B	10	1	Husky	37.3	—	—	—	—	45	2 Fd.	—
			Vantmore	63.4	—	—	—	—	49	1 Fd.	—
			Vantage	56.2	—	—	—	—	48	1 Fd.	—
			Compana	35.2	—	—	—	—	44	2 Fd.	—
Samples incomplete—Yields not included in zone summary.											
			R. BRUCE MURRAY, BRATTON								
2B	10	5	Husky	45.8	—	26	1.0	1.0	49	1 Fd.	—
			Vantmore	35.7	—	23	1.0	1.0	46	1 Fd.	—
			Vantage	41.1	—	20	2.3	1.5	49	1 Fd.	—
			Compana	49.7	—	20	3.0	1.5	49	3 CW 2R	—
Necessary difference—5.9 bushels.											
			BILL C. LATRACE, TESSIER								
2B	10	10	Husky	56.4	110	35	1.0	1.8	50	1 Fd.	—
			Vantmore	38.7	105	34	2.3	1.0	46	1 Fd.	—
			Vantage	45.1	108	33	2.8	1.8	46	1 Fd.	—
			Compana	23.7	101	27	8.0	3.0	47	1 Fd.	—
Necessary difference—6.5 bushels.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
1D	10	4	Ivan K. McConnell, Wiseton.								

WHEAT POOL DISTRICT 11

			GARY C. & IAN D. GILLESPIE, KYLE								
1D	11	1	Husky	72.8	108	25	1.3	2.0	49	1 Fd.	—
			Vantmore	51.5	108	24	1.0	1.0	47	1 Fd.	—
			Vantage	60.0	108	24	1.0	1.0	48	1 Fd.	—
			Compana	56.8	107	19	2.5	3.0	51	3 CW 2R	—
Test damaged by animals—Yields not included in zone summary.											
			BLAINE P. SCOTT, FORGAN								
1D	11	2	Husky	79.2	99	39	1.8	1.0	46	1 Fd.	—
			Vantmore	64.7	98	38	1.5	1.0	43	2 Fd.	—
			Vantage	70.3	98	39	1.5	1.0	45	2 Fd.	—
			Compana	62.4	97	31	5.0	3.0	46	1 Fd.	—
Necessary difference—6.7 bushels.											

WHEAT POOL DISTRICT 12

			ELEANORE H. ITTERMAN, OBAN								
2D	12	1	Husky	46.2	107	27	—	1.3	45	2 Fd.	—
			Vantmore	36.0	106	24	—	1.8	40	3 Fd.	—
			Vantage	43.1	107	26	—	1.5	43	2 Fd.	—
			Compana	43.4	105	20	—	2.8	43	2 Fd.	—
No significant grain yield difference between varieties.											
			R. BRUCE McCONNELL, CANDO								
2D	12	2	Husky	23.4	94	28	1.5	1.0	46	1 Fd.	—
			Vantmore	27.4	94	27	2.5	1.8	44	2 Fd.	—
			Vantage	26.5	89	27	2.0	1.5	45	2 Fd.	—
			Compana	24.2	85	22	6.0	2.0	45	2 Fd.	—
No significant grain yield difference between varieties.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			GERALD M. MILLER, ROCKHAVEN								
2D.....	12	9	Husky.....	18.8	—	—	—	—	39	3 Fd.	—
			Vantmore.....	23.1	—	—	—	—	40	3 Fd.	—
			Vantage.....	26.1	—	—	—	—	40	3 Fd.	—
			Compana.....	22.8	—	—	—	—	42	3 Fd.	—
Necessary difference—1.9 bushels.											
			LAWRENCE J. HANTERMAN, BATTLEFORD								
3G.....	12	10	Husky.....	43.1	109	24	1.0	2.0	48	1 Fd.	—
			Vantmore.....	26.8	106	—	—	—	39	3 Fd.	—
			Wolfe.....	45.3	105	22	1.0	1.0	48	1 Fd.	—
			Balder.....	39.6	113	15	5.0	3.0	49	1 Fd.	D.
Necessary difference—5.5 bushels.											
Tests discarded on account of damage by flooding, hail, pests, drought or other causes											
3E.....	12	7	Raymond E. DeBelser, Winter.								

WHEAT POOL DISTRICT 13

			FRED E. EARIS, JR., BAY TRAIL								
3C.....	13	1	Husky.....	47.9	94	23	2.3	1.0	48	1 Fd.	—
			Vantmore.....	34.8	89	20	2.5	1.8	43	2 Fd.	—
			Wolfe.....	35.1	100	17	4.5	1.8	47	1 Fd.	—
			Balder.....	35.6	107	14	8.5	3.0	49	3 CW 2R	D.
Necessary difference—6.3 bushels.											
			C. BERNARD GRAHAM, VANSCOY								
2B.....	13	6	Husky.....	54.1	100	36	1.0	2.0	49	1 Fd.	—
			Vantmore.....	48.0	98	36	1.0	1.0	44	2 Fd.	—
			Vantage.....	49.6	98	36	1.0	2.0	45	2 Fd.	—
			Compana.....	42.6	82	25	1.0	1.0	48	3 CW 2R	—
Necessary difference—5.4 bushels.											
			LLOYD J. BLOOMQUIST, KINLEY								
2B.....	13	7	Husky.....	60.4	108	30	2.0	—	45	2 Fd.	—
			Vantmore.....	53.4	103	27	1.0	—	39	3 Fd.	—
			Vantage.....	50.4	103	27	1.0	—	42	3 Fd.	—
			Compana.....	36.1	97	25	4.0	—	43	2 Fd.	—
Necessary difference—4.4 bushels.											
			J. LARRY NEUFELD, ABERDEEN								
2B.....	13	8	Husky.....	63.7	122	30	1.8	2.5	48	1 Fd.	—
			Vantmore.....	46.4	112	30	1.8	1.5	44	2 Fd.	—
			Vantage.....	39.8	119	30	1.5	1.8	49	1 Fd.	—
			Compana.....	42.2	110	24	3.5	3.0	47	1 Fd.	D.
Necessary difference—5.4 bushels.											
			WALTER LA BRASH, TOTZKE								
2B.....	13	9	Husky.....	54.8	107	26	1.5	2.0	47	1 Fd.	—
			Vantmore.....	48.2	99	25	1.0	1.0	46	1 Fd.	—
			Vantage.....	44.1	98	24	1.0	1.0	47	1 Fd.	—
			Compana.....	46.6	93	21	1.0	1.0	47	1 Fd.	D.
No significant grain yield difference between varieties.											
			ALLAN J. DOEPKER, ANNAHEIM								
3C.....	13	11	Husky.....	24.4	—	—	—	—	47	1 Fd.	—
			Vantmore.....	30.9	—	—	—	—	47	1 Fd.	—
			Wolfe.....	27.0	—	—	—	—	48	1 Fd.	—
			Balder.....	30.8	—	—	—	—	48	1 Fd.	F.
Test damaged by hail and frost—Yields not included in zone summary.											

WHEAT POOL DISTRICT 14

			GERALD C. TROBAK, LINTLAW								
4A.....	14	1	Husky.....	39.3	118	30	6.0	1.0	45	2 Fd.	—
			Vantmore.....	37.4	113	31	3.0	1.0	45	2 Fd.	—
			Wolfe.....	24.7	105	29	4.0	2.0	46	1 Fd.	—
			Balder.....	40.3	111	23	2.0	1.0	49	3 CW 2R	D.
Wolfe damaged—Yields not included in zone summary.											
			GERALD B. HAUGAN, FOSSTON								
3C.....	14	4	Husky.....	53.1	98	35	8.3	3.0	39	3 Fd.	—
			Vantmore.....	64.1	96	34	8.5	2.8	40	3 Fd.	—
			Wolfe.....	48.4	97	35	9.0	3.0	43	2 Fd.	—
			Balder.....	40.5	102	32	2.3	1.8	40	3 Fd.	—
Test damaged by birds and lodging—Yields not included in zone summary.											

Wheat Pool District 14—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ALVIN R. TOUET, CARRAGANA											
3F	14	6	Husky	—	—	36	8.0	3.0	41	3 Fd.	—
			Vantmore	—	—	36	7.0	3.0	42	3 Fd.	—
			Wolfe	—	—	33	9.0	3.0	42	3 Fd.	—
			Balder	—	—	30	5.0	2.0	45	2 Fd.	—
Samples incomplete—Yields not included in zone summary.											
OREST J. NAWROCKI, SYLVANIA											
3F	14	7	Husky	46.6	113	25	3.3	1.8	40	3 Fd.	—
			Vantmore	45.3	106	26	2.8	1.3	43	2 Fd.	—
			Wolfe	33.0	97	25	5.3	2.0	42	3 Fd.	—
			Balder	41.7	113	25	3.8	2.5	45	2 Fd.	—
No significant grain yield difference between varieties.											
C. DALE WHITING, PLEASANT VALLEY											
3D	14	8	Husky	30.3	—	38	1.8	1.0	45	2 Fd.	—
			Vantmore	58.1	103	37	2.3	1.0	48	1 Fd.	—
			Wolfe	31.2	103	32	3.3	1.0	48	1 Fd.	—
			Balder	38.1	—	34	8.0	2.0	49	1 Fd.	F.
Test damaged—Yields not included in zone summary.											
GERALD I. HANSEN, WELDON											
3J	14	9	Husky	72.6	109	46	4.0	2.0	43	2 Fd.	—
			Vantmore	49.6	99	44	6.0	2.0	43	2 Fd.	—
			Wolfe	62.2	96	36	8.0	1.0	45	2 Fd.	—
			Balder	47.0	108	34	2.0	3.0	47	1 Fd.	D.
No significant grain yield difference between varieties.											
DELMER A. WALL, JORDAN RIVER											
3F	14	11	Husky	69.7	108	31	3.3	2.0	44	2 Fd.	—
			Vantmore	66.7	112	29	2.5	1.8	43	2 Fd.	—
			Wolfe	67.1	98	30	3.0	2.3	43	2 Fd.	—
			Balder	60.5	120	34	5.0	2.0	45	2 Fd.	—
No significant grain yield difference between varieties.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3C	14	2	Garry and Dennis Ott, Wadena.
4A	14	4	Rosella E. Dusener, McKague.
4A	14	5	William M. F. Adams, Nobleville.

WHEAT POOL DISTRICT 15

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ALFRED W. NEUFELDT, LAIRD											
3G	15	4	Husky	65.3	103	33	4.0	1.0	45	2 Fd.	—
			Vantage	53.0	106	33	4.0	1.0	44	2 Fd.	—
			Wolfe	46.4	91	31	5.0	1.0	45	2 Fd.	—
			Balder	44.5	112	28	6.0	2.0	46	1 Fd.	—
No significant grain yield difference between varieties.											
ALEX DENYSUIK, HENRIBOURG											
3J	15	9	Husky	67.9	—	34	—	2.0	45	2 Fd.	—
			Vantage	59.3	—	31	—	1.0	44	2 Fd.	—
			Wolfe	72.8	—	28	—	1.0	45	2 Fd.	—
			Balder	63.1	—	27	—	2.0	44	2 Fd.	—
Necessary difference—4.9 bushels.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3D	15	1	Peter Jensen, Tiger Hills.
4A	15	10	Edward L. Hoda, Meath Park.

WHEAT POOL DISTRICT 16

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GRANT R. PEDEN, MAYMONT											
3G	16	1	Husky	30.5	89	22	1.8	2.3	41	3 Fd.	—
			Vantmore	27.4	93	21	1.8	1.8	39	3 Fd.	—
			Wolfe	27.6	86	18	1.8	2.0	42	3 Fd.	—
			Balder	27.3	94	17	1.8	3.0	46	1 Fd.	—
No significant grain yield difference between varieties.											
JOHN C. ROBERTS, FIELDING											
3G	16	1	Husky	19.8	108	17	—	—	46	1 Fd.	—
			Vantmore	20.1	102	18	—	—	45	2 Fd.	—
			Wolfe	19.8	100	20	—	—	49	1 Fd.	—
			Balder	23.2	121	12	—	—	47	1 Fd.	F.
No significant grain yield difference between varieties.											

Wheat Pool District 16—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RONALD O. TKACHUK, HAFFORD											
3G	16	2	Husky	26.7	96	37	2.3	1.0	36	3 Fd.	—
			Vantmore	28.7	95	35	1.8	1.0	40	3 Fd.	—
			Wolfe	18.6	95	35	1.3	1.0	42	3 Fd.	—
			Balder	23.6	96	34	1.8	1.0	41	3 Fd.	—
Necessary difference—5.2 bushels.											
WILFRED L. BLANCHETTE, VAWN											
3E	16	4	Husky	67.9	103	33	4.0	2.0	39	3 Fd.	—
			Vantmore	56.2	103	31	4.0	1.5	38	3 Fd.	—
			Wolfe	48.9	92	27	3.3	1.0	41	3 Fd.	—
			Balder	51.3	105	27	4.5	2.3	44	2 Fd.	—
Necessary difference—5.8 bushels.											
KEITH M. VALLENTGOED, TURTLEFORD											
3E	16	8	Husky	67.8	108	33	1.5	1.8	44	2 Fd.	—
			Vantmore	46.5	108	32	1.0	1.0	39	3 Fd.	—
			Wolfe	54.8	97	32	1.8	1.3	43	2 Fd.	—
			Balder	50.3	108	24	1.3	3.0	48	1 Fd.	D.
Necessary difference—5.2 bushels.											
CRESTON J. STORY, RANGER											
4B	16	10	Husky	52.5	105	26	4.0	2.0	38	3 Fd.	—
			Vantmore	45.4	103	26	3.8	1.0	39	3 Fd.	—
			Wolfe	36.6	98	24	4.3	1.0	39	3 Fd.	—
			Balder	33.3	110	20	6.0	2.0	42	3 Fd.	—
Necessary difference—5.4 bushels.											
AMEDE BEAUBIEN, CABANA											
3H	16	11	Husky	44.9	—	28	5.0	2.0	49	1 Fd.	—
			Vantmore	33.4	—	26	3.0	2.0	45	2 Fd.	—
			Wolfe	34.8	—	26	5.0	2.0	48	1 Fd.	—
			Balder	44.8	—	24	2.0	3.0	46	1 Fd.	—
Necessary difference—6.4 bushels.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3E	16	7	Johnny R. Leer, Butte St. Pierre.
4B	16	9	Jean B. X. Bouchard, Medstead.

CONCLUSIONS

The year 1954 will remain in the memory of Saskatchewan farmers as a year of disappointment. It followed a series of years in which nature smiled and the farms of Saskatchewan produced abundantly. However, 1954 seemed plagued with misfortune from the beginning. Excessive rainfall in the spring prevented seeding of a considerable acreage in the north-east portion of the province and delayed seeding in many other areas. Throughout the season unusually abundant rainfall continued, accompanied by unseasonably low temperatures and lack of sunshine. All these factors combined to delay the development of the crop. Then on June 6-8 strong south-east winds carried spores of stem and leaf rust from the south and deposited them over a large area of the province. This area extended diagonally from the south-east to the north-west of the province and covered many areas in which a rust epidemic had never before been experienced. The cool wet weather and the lateness of the crop resulted in serious damage to rust susceptible grains. Leaf rust took a heavy toll and this was followed later by race 15B of stem rust which attacked all the commonly grown wheat varieties. Damage from frost, hail and sawflies was also more severe than in most years.

As a result of the rust epidemic, attention was focussed on the performance of Selkirk wheat and also on the variety grown under the code number W-120, which resisted the rust but failed to meet Canadian standards for milling and baking quality. Lee, because of its leaf rust resistance, showed up well, and the sawfly resistant variety Rescue showed limited resistance. The new variety Lake, although not resistant to rust, performed well in the west and west-central area of the province.

Oats and barley were affected less by rust than was wheat, but they were affected by the other adverse factors such as excess rain, frost, hail and wind. Exeter oats maintained a long standing reputation for high yielding ability under good moisture conditions. In the zones most severely affected by rust, the new varieties Garry and Rodney appeared to best advantage. Eagle, although damaged by rust in many zones, performed well in certain zones in the western part of the province.

The barley varieties Vantage and Husky commanded considerable attention. Husky outyielded the other varieties tested in all but two zone groups. Vantage performed well in most of the prairie region. On the basis of one year's tests the new variety Vantmore does not appear likely to replace Husky in the parkland region, or Vantage in the prairie region.

Because of the unusual combination of circumstances which occurred in 1954, it has been repeatedly pointed out that consideration must be given to variety performance under long term "normal" conditions as well as the results for the year under review.

The continuing success of the Wheat Pool variety testing project is due in no small measure to the enthusiasm of the young people who supervise the tests. Their willingness to conduct these tests makes possible a distribution of tests in all areas of the province, which adds considerably to the value of the information produced.

A factor which should not be overlooked is the value of having variety tests located in many farming communities. There they serve as constant reminders of the differences between varieties and the importance of growing the best varieties available.

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